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**FIGURE 477**

TTTCCGTGCTACCTACAGAGGGGTCCATATGGCGTTGTTCTGGATTCCCGTCGTAACTCAAAGGGAACTTTCA  
CAATGTCGGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCTTGCAGCAGGAACCCACT  
TAGGTGGCACCAATCTTGACTTACAGATGGAACAGTATATCTATAAAAGGAAAAGTGATGGCATCTACATCATAA  
ATCTGAAGGGAACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCTATTGTTGCCATTGAAAACCTGCTGATGTCA  
GTGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTG  
CTGGCCACTTCACCTCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCTGGGAGCCATGGCTTCTTATGGTTA  
CTGACCCCAGGGGCTGACCATCAGCCTCTCACAGAGGCATCTTATGTTAATCTACCTACCATCGCTCTGTGTAAC  
ACAGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCGTGCAACAACAAGGGAGCTCACTGAGTGGGTTTGATG  
TGGTGGATGCTGGCTCGGGAAGTACTGTGCATGCGTGGCACCATTTCCCGTGAACACCCATGGGAGGTCATGCCT  
GATCTCTGCTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCAGTGACCAAG  
GAGGAATTTAGGGTGAATGGTCTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTTT  
GAAGGTATACAGGTGCCCTCTGTGCCTATTACAGCAGTTCCTACTGAACAATGGAGCACTCAGCCTGCCACGGAAT  
ACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGAATGGTCTTAAGCTGTTCTTG  
CATGGGCTCTTAAGCAACATGGAAAAATGGTTGATGGAAAATAACATCAGTTTCT

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**FIGURE 478**

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDLQMEQYIYKRKSDGIYIINLKGTWEKLLLAARAIVAIENPADVS  
VISSRNTGQRAVLKFAAATGATPIAGHFTP GTFTNQIQAAFWE PWLLMVTDP RG



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**FIGURE 479**

AAAGGGAACTTTTACAATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTG  
CAGCAGGAACCCACTTAGGTGGCACCAATCTTGACTTACAGATGGAACAGTATATCTATAAAAGGAAAAGTGATG  
GCATCTACATCATAAATCTGAAGGGAACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCTATTGTTGCCATTGAAA  
ACCTTGCTGATGTCAGTGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTG  
GAGCCACTCCAATTGCTGGCCACTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCATCTTATGTTAATCTAC  
CTACCATCGCTCTGTGTAAACACAGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCGTGCAACAACAAGGGAG  
CTCACTGAGTGGGTTTGATGTGGTGGATGCTGGCTCGGGAAGTACTGTGCATGCGTGGCACCATTTCCTGTAAC  
ACCCATGGGAGGTCATGCCTGATCTCTGCTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTG  
CTGA

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**FIGURE 480**

MSGALDVLQMKEEDVLKFLTAGTHLGGTNLDFQMEQYIYKRRSDGIYIINLKRTWEKLLLAARAIVAIENPAVVS  
VISSRNTGQRAVLKFAAVTGATPIAGRFTPGNFTNQIQEASYVNLPTIALCNTDSPLHFVDIAIPCNNKGAH

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**FIGURE 481A**

AGGTAGCAAGATGGCCGCCGCTGAGGAAGGCTGTAGTGTGCGGGCCGAAGCGGACAGGGAATTGGAGGAGCTTCT  
GGAAAGTGCTCTTGATGATTTTCGATAAAGCCAAACCCCTCCCCAGCACCCCTTCTACCAACACGGCCCTTGATGC  
TTCGGGGCCCCAGAAGAGATCGCCAGGAGACACTGCCAAAGATGCCCTCTTCGCTTCCCAAGAGAAGTTTTTCCA  
GGAACCTATTTCGACAGTGAACCTGGCTTCCCAAGCCACTGCGGAGTTCGAGAAGGCAATGAAGGAGTTGGCTGAGGA  
AGAACCCACCTGGTGGAGCAGTTCACAAAGCTCTCAGAGGCTGCAGGGAGAGTGGGCAGTGATATGACCTCCCA  
ACAAGAATTCACCTTCTTGCCCTAAAGGAAACACTAAGTGGATTAGCCAAAAATGCCACTGACCTTCAGAACTCCAG  
CATGTGCGGAAGAAGAGCTGACCAAGGCCATGGAGGGGCTAGGCATGGACGAAGGGGATGGGGAAGGGAACATCCT  
CCCCATCATGCAGAGTATTATGCAGAACCTACTCTCCAAGGATGTGCTGTACCCATCACTGAAGGAGATCACAGA  
AAAGTATCCAGAAATGGTTGCAGAGTCATCGGGAATCTCTACCTCCAGAGCAGTTTGAAAAATATCAGGAGCAGCA  
CAGCGTCATGTGCAAAATATGTGAGCAGTTTGAGGCAGAGACCCCCACAGACAGTGAACCACTCAAAAGGCTCG  
TTTTGAGATGGTGTGGATCTTATGCAGCAGCTACAAGATTTAGGCCATCCTCCAAAGAGCTGGCTGGAGAGAT  
GCCTCCTGGCCTCAACTTTGACCTGGATGCCCTCAATCTTTCGGGGCCACAGGTGCCAGTGGTGAACAGTGTCT  
GATCATGTGAACACAACACGTTTTCTCTCTGAGTCCCAGCTATGGGGAACATCTGGAGTCAGCAGAACCATTG  
GGACCTGAGGCAGGAGTGTACCTGCGGGAGAAGTCTGCCCGCTGCCCTCTGTATCCCATTCAGATTGTGCCA  
TACCAGCTGAGGTTTTCTCTGTCTCTCTAGGAATAGGGTCTGTTTTCACAGGCCATTTCTGTGAACCTACTCC  
ATTGTGGTTTTCTGCCACTATCAAAGTTCCAGCTACCTGCAAGGTGAAGGAAGGCATCCCTTTTGGGGCATGCACT  
TTCTTTCTCTTTCTCAAAATAATGTTATATGTGGCCACACTGATGTTACCTTTACGTCCAGGTCTTTGTGCCCT  
GTCTCTACTCCCTCTCTTGGATCTGGGGAGGAGGGGCAGAGACCTGGGACTCTGTATTTCTATAGTTCTCTCTGGC  
AGAGCCCTTTGAGAATGGGGAGAAACAGCCTGGGCTGGGGCTACAGGTCTGTCACTATGTCTCTTGCCTTCAGAC  
AGACCATTCTGAATTTCTTAAAGGGAAGGGCTTTTGCATCTAATCACAATAGAGTTGAAAGAGAGGCCTTAGGA  
TTCTCTCTCTCTAGGTGTGAGCCCTCACCTCCCTGTTCCAGGCTGAGAACTCAAATGGTTACCCTGCTTCTTC  
CTACAATGCTGTGTGATATGGGTGAACCCAGCCCCCTGACCTTCTCTATCCCTGCCCCATCTCCCTTTTACCTC  
CTCTCTTTTTTAAACACCTGTTTATCCCAACCTTTTTGAGCTCAAGCTGTGATAAAGAAGGGCCCATCTATTTT  
CCCTCATCTAGTCCATTTACGATTCTCACTGACTCCCCGCTCTCTCTGGCAGACACAAATAAACCAGTGTCAAGT  
CTAGGAAATTAATGGCTATTCTTCCCCAGATACATTCTGGCTTATTTGAGATACATGATTCTCTTAGAATCCTGT  
CCCTTGGTTTCAGGAAAGTAGCTTGGAAAAGGAGTAGGGGTATAGCTTGGGTCCCTTTTCTGCAAGGCCCATGG  
GGCAGAAATATAATAATATTCTGAGTGAGGAGTGTGGTCTTTTTCTGATCTTCTCAGCTTCCGTAAGTTGCAGA  
GTGAGGTATATTAGGAGACTAGTTCTACACAATATTGTAATGCTGGGTTCATCAACACCCACCTTCCACAACCTC  
AGTCTGCACCTCAGTTGGCAAAGGAGACTGGATGGCCATCTTCTCATGTTCCCTTGAGTATTTCAATGTAGAA  
AGCCCTTCAAGTGGTATTATATTTTAAACCTTTTACATTATTGTTATTAATGTTAGTAATATATTGTTATGTTTTT  
TAAATTATTTTTCTTTAAGCTGACGTGGCTTTTTTCTGTGGCTCCAGTGGGTCTACGGACCTTGGCTGACATA  
TGTTGGTAGGTACTCTGGTCAGCTCAGCTGGCTGTCTGGTTCCTCAGTCTCAGAAAGATAAGTCTCTCCAAAGCAATTC  
ACATGCATTATGAGTCGCTTTGAGCTTCTGACATGTCACTTGCCCCGAGGTTAAACTTTTTACCCTTTGAAGAC  
CTTACATGTTTTATGGTATTGGTGAGGAAGGAAATGTTCTCAAGGTCTCAGGCTATTGGGAAATTCCAACCTCCT  
ATACCTTACCAGAGCATGGAAGAGCCCAGATCTGAATGTAAACGTCCTGTCTCTGCCAGAGATGGAAAAAATAC  
AGGTATACTTGTGATATAGTCATGGGGCTTCAGTGTCACTATTTCTCTCTTAAAGCTCCAGCCAAAAAAGTGGACA  
AGGATAGAGAGGAGGAGGGAAGAACAAAAGAGCCCTTCTCTATGAACCTTGTGCCTTCTGTCTTACAGTTTTCT  
TTTACAGATTCTCACTTCTGCTAGCCTAGCCAGGGCTTACTCCAGGAATCTAAATAGATGCCCTAGTCCACTTTA  
TCTTTGTTCCCAAGGCACTCATTTTTATTTTGAATTTGATTGAATGTGAGCAGGTGACCTCAGGTCACTTTG  
TTCCAAAACTTTTGAATTATTCAGGACTTGTGGTGGAGTTATGGTACTCTAGGGCAGTCTTTCTCAAACTAT  
GTATGGTAAAGGACAGGTTTTTGTGTTTCCAGTCCCTCACTTATCAATATGCATTCTTATTGCCGATGACAGGT  
ATGGAGTTCACACTGTGTGCTGCCGACCCGGCAAGTTTGACAGCACCCAAACTGGCCAGACTGTTCTGTAGGTTA  
AGTCCATTGATCATGTACTTGATATCACAGCAACATTGAAATGCTAAAAAGTTTTTAAACACTCTCAATTTCTA  
ATTACCATGTACAGACTGGTGAAAAAAGGTTGTTCACTGACCAGCACAAAGTCTGCAGATCATCTTTG  
AGTAGCACTGTTTTGGGGCCCTCGGTCTCTCTGAAGACCCTAGCAGAACTGATACCTACCTGTATCTCTTGTCT  
CTCCTATTTGAGTTTCACTTCCAGAGAACTTGTCTTCAAGAAATGTGTCACTAGTAAGGACATCTCTAGCAT  
TTCTCTAGCCTTCTTTTTCTGCTGCTCAAAAATAATCGTTACAAAGCTTAGGTTTAAAGCTGTATATGAAATATTT  
ATGCGACTCTCAAACTTTAAAGGAGTTGCTCCTTTGTTCCAAATTAATGTGTTAGATAAAATTTGTGATTGTAT



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**FIGURE 482**

MAAAEEGCSVGAEADRELEELLESALDDFDKAKPSPAPPSTTTAPDASGPQKRSPGDTAKDALFASQEKFFQELF  
DSELASQATAEFEKAMKELAE EEPHLVEQFQKLSEAAGRVGSDMTSQQEFTSCLKETLSGLAKNATDLQNSSMSE  
EELTKAMEGLGMDDEGDGEGNILPIMQSIMQNLLSKDVLPSLKEITEKYPEWLQSHRESLPPEQFEKYQE QHSVM  
CKICEQFEAETPTDSETTQKARFEMVLDLMQQLQDLGHPPKELAGEMP PGLNFDLDALNLSGPPGASGEQCLIM

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**FIGURE 483A**

GAGAAGGGACCTTCAGGTCCAGGCAAAGGGGGAACCTTCTGTCGTGGGAACGAAAAAGAAAGAGGATTTACAGGGT  
GGGGGGACAGAGGGGCGAGCAGGAACCAGAAGGGAGACAGTGGCGGTGCGGGCGGGGCCGATCCGAGAGTTCCCT  
TAGAGAACGGAGCTCACGGGCGGGGAGGCCTCACCTGCTAGTAGGACGCAGAAAGACAGAAGGCCGAGGAGACCC  
CGACTTCCCGGGTCAGCCCCAGAGCCACCCCTGCCGTAGCCATCTTGCTCTCTGCTGAGCGGAAGCCCCCGTT  
CGGCTCCTGCTGTITAGCGGCTCTCTAGGCTACCACTGACACCGTCTCTGTGGCCCGGAGCCTAAGAGACCGGA  
AGTTCGTGTTTCCAGGCGCTTCCGGAAACCGCGGGAGAGGGTCGCTGACGTGGAGGCGTCCGAAGGCGAGCAGGG  
TGTGTCGGGGCTCGGATTAAAGACATCGGAGTCGGAGACCTGAGAGATGTTAACCAAATTCGAGACCAAGAGCGCG  
CGGGTCAAAGGGCTCAGCTTTCACCCCAAAAGACCTTGGATCCTGACTAGTTTACATAATGGGGTCATCCAGTTA  
TGGGACTATCGGATGTGCACTCTCATTGACAAGTTTGATGAACATGATGGTCCAGTGCAGAGGCATTGACTTCCAT  
AAGCAGCAGCCACTGTTCTGCTCTGAGGAGATGACTATAAGATTAAGGTTTGGAAATTACAAGCTTCGGCGCTGT  
CTTTTCACATTGCTTGGGCACTTAGATTATATTCGACACCGTTTTTTCATCATGAATATCCCTGGATTCTGAGT  
GCCTCCGATGATCAGACCATCCGAGTGTGGAACCTGGAACCTAGAACCTGTGTTTGTGTGTTAACAGGSCACAAC  
CATTATGTGATGTGTGCTCAGTTCACCCCAAGAGACTTGGTAGTATCAGCCAGCCTGGACCAGACTGTGCGC  
GTTTGGGATATTTCTGGTCTGAGGAAAAAAACCTGTCCCTGGTGGGTCGGAATCGGATGTGAGAGGAATAACT  
GGGGTTGATCTATTTGGAACCTACAGATGCAGTGGTGAAGCATGTACTAGAGGGTCACGATCGTGGAGTAACTGG  
GCTGCCTTCCACCCCACTATGCCCTTATTGTAICTGGGGCAGATGATCGTCAAGTGAAGATCTGGCGCATGAAT  
GAATCAAAGGCATGGGAGGTTGATACCTGCCGGGGCCATTACAACATGTATCTTGTGCCGTCTTCCACCTCGC  
CAAGAGTTGATCCTCAGCAATTCTGAGGACAAGATATTCGAGTCTGGGATATGTCTAAGCGGACTGGGGTTCAG  
ACTTTCGCGAGAGACCATGATCGTTTCTGGGTCTAGCTGCTCACCTAACCTTAACCTCTTGCAGCAGGCCAT  
GATGGTGGTATGATTGTGTTTAAAGCTGGAACGGGAACGGCCAGCCTATGCTGTTTATGGCAATATGCTACACTAT  
GTCAAGGACCGATTCTTACGACAGCTGGATTTCACAGCTCCAAAGATGTAGCTGTGATGCAGTTGCGGAGTGGT  
TCCAAGTTTCCAGTATTCAATATGTATACAATCCAGCAGAAAAATGCAGTCTGCTTTGTACAAGAGCTAGCAAT  
CTAGAGAATAGTACCTATGACCTGTACACCATCCCTAAAGATGTGACTCCCAGAATCCTGATGCGCCTGAAGGG  
AAACGATCCTCAGGCCTGACAGCCGTTTGGGTGCTCGAAATCGGTTTGTGTCCTAGATCGGATGCATTTCGCTT  
CTGATCAAGAATCTGAAGAATGAGATCACCAAAAAGGTACAGGTGCCCAACTGTGATGAGATCTTCTATGCTGGC  
ACAGGCAATCTCCTGCTTCGAGATGCGGACTCTATCACACTCTTTGACGTACAGCAGAAGCGGACTCTGGCATCT  
GTGAAGATTTCTAAAGTGAAATACGTTATCTGGTCAGCAGACATGTACATGTAGCACTACTAGCCAAACACGCC  
ATTGTGATCTGTAAACGCAACTGGATGCTTTATGTAACATTCATGAGAACATTCGTGTCAAGAGTGGGGCCTGG  
GATGAGAGTGGGGTATTATCTATACCACAAGCAACCACATCAATATGCTGTACCACTGGGGACCACGGGATC  
ATTCGAACCTCTGGATTACCCATCTATGTACACGGGTGAAGGGCAACAATGTATACTGCCTAGACAGGGAGTGT  
CGTCCCCGGGTACTACCATTTGATCCCACTGAGTTCAAATTCAGCTGGCCCTGATCAACAGAAAATATGATGAG  
GTACTGCACATGGTGAGGAATGCCAAACTAGTTGGCCAGTCTATTATTGCTTATCTCCAGAAGAAGGGCTATCCT  
GAAGTGGCACTGCATTTTGTCAAGGATGAGAAAACCTCGTTTAGTCTGGCACTGGAGTGTGGAACATTGAGATT  
GCTCTGGAAGCAGCCAAAGCACTGGATGACAAGAACCTGCTGGGAAAAGCTGGGAGAAGTGGCCCTGCTGCAGGGG  
AACCACCAGATTGTGGAATGTGCTATCAGCGTACCAAAAACCTTTGACAACTTTCCTTCTGTATCTTATCACT  
GGCAACTTAGAAAAACTTCGCAAGATGATGAAGATTGCTGAGATCAGAAAGGACATGAGTGGCCACTATCAGAAT  
GCCCTATACCTGGGTGATGTGTGAGAGCGTGTGCGGATCCTGAAGAACTGTGGACAGAAGTCCCTGGCCTATCTC  
ACAGCTGTACCCATTGGCTTAGATGAAGAAGCTGAGAGCCTAAAGGAGACATTTGACCCAGAGAAGGAGACAATC  
CCAGACATTGACCCTAATGCCAAGCTGCTCCAGCCACCTGCACCTATCATGCCATTGGATACCAATTGGCCTTTA  
TTGACTGTATCCAAAGGATTTTGAAGGCACCATTTGCCAGCAAAGGGAAGGGAGGAGCACTGGCTGCTGACATT  
GACATTGACACTGTTGGTACAGAGGGCTGGGGAGAGGATGCAGAGCTGCAGTTGGATGAAGATGGGTTTGTGGAG  
GCTACAGAAGGTTTGGGGGATGATGCTCTTGGCAAGGGACAGGAAGAAGGAGTGGCTGGGATGTAGAAGAAGAT  
CTGGAGCTCCCTCCTGAGCTGGATATATCCCTGGGGCAGCTGGTGGGGCTGAAGATGGTTTCTTTGTGCCCCCA  
ACCAAGGGAACAAGTCCAACCTCAGATCTGGTGTAACTCTCAGCTTCCAGTTGATCACATCTGGCAGGCTCT  
TTCGAAACAGCCATGCGGCTCCTTCATGACCAAGTAGGGGTAATCCAGTTTGGCCCTACAAGCAACTGTTCTTA  
CAGACATACGCCGAGGCCGACAACTATCAGGCTCTGCCCTGCCTACCCTCCATGTATGGCTATCCTAATCGC  
AACTGGAAGGATGCAGGGCTGAAGAATGGTGTACCAGCTGTGGGCTGAAGCTTAATGACCTCATCCAACGGTTG  
CAGCTGTGCTACCAGCTCACCACAGTTGGCAAATTTAGGAGGCTGTGGAAAAATCCGTTCCATCCTTCTCAGT

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**FIGURE 483B**

GTGCCACTTCTTGTGTGGACAATAAACAAGAGATTGCAGAGGCCAGCAGCTCATCACCATTGCGGTGAGTAC  
ATTGTGGGTTTGTCCGTGGAGACAGAAAGGAAGAAGCTGCCCAAAGAGACTCTAGAACAGCAGAAGCGCATCTGT  
GAGATGGCAGCCTATTTACCCACTCAAACCTGCAGCCTGTGCACATGATCCTGGTGTGCTGCGTACAGCCCTCAAT  
CTGTTCTTCAAGCTCAAGAACTTCAAGACAGCTGCCACCTTTGCTCGGCGCCTACTAGAACTCGGGCCCAAGCCT  
GAGGTGGCCCAACAGACCCGAAAAATCCTGTCTGCCTGTGAGAAGAATCCACAGATGCCTACCAGCTCAATTAT  
GACATGCACAACCCCTTTGACATTTGTGCTGCATCATATCGGCCCATCTACCGTGGAAAGCCAGTAGAAAAGTGT  
CCACTCAGTGGGGCTGCTATTTCCCTGAGTTCAAAGGTCAAATCTGCAGGGTCACCACAGTGACAGAGATTGGC  
AAAGATGTGATTGGTTTAAGGATCAGTCTCTGCAGTTTCGCTAAGGCCCTTTGTGTGCATGGGTGAGTCACC  
ATATGTTCCCCCAGAGAATGTGTCTATATCCTCTTCTAACAGCACCTTCCCCCTGCAGTACTCTTCAGATCT  
GGCTCTCTGTACCCTAAAACCTAGTATCTTTTTCTCTTCTATGGAATCCGAAGGTCTAAACTTGACTTTTTTG  
AGGTCTTCTCAACTTGACTACAGTTGTGCTCATAATTGTCCTTGCCTTTCCAGCTTAATTATTTAAGGAACAAA  
TGAAACTCTGGGCTGGGTGGAGTGGCTCATACCTGTAATCCCAGCACTTTGGGAGGCTACGGTGGGCAGATCAT  
CTGAGGCCAGGAGTTCGAGACCTGCCGCAACATGGCAACACCCCGTCTCTAATAAAAAATATAAAAAATTAGCC  
TGGCATGGTAGCATGCGCCTATAGTCCCAGCTGCTCAGGAGGCTGAGGCATGAGAATCGCTTGAACCTAGGAGGT  
GGAGGTGCACTTCAACTGAGATCATACCACTTCATTCCAGCCTGGGTGACAGAGCAAGACTCTGTCTCAAAAAA  
AAAAAAGGAAACTCTGTGATGGACATTTGTTTAGTAAATCCCTTCAGTATTTATCCCTCCTTTCCCCACAGCA  
GCTTCTTTCTCTGTCAACTAGAAAGGAGCAGGATGTAATAAATACATTTTGGTGTGACTAGGCCACACCAACTCT  
TAATCATCTCCCATTTTCTTAGACATTTAAATTTCAAGGCAGGTACCCTCTGTGTACTCAGAAATTTGAAGAAG  
TTATTTGGTTTTCCAAATGCACACTGCGGGTTATTGATTTGTTCTTTACAACATATTGTTCTCATATTTCTCACA  
CTAAATAAATCTCTATGAGAGCTTCTTG

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**FIGURE 484**

AGCTGCGGTGTTGTGCTGTGGGAAGGGAGAAGGATTTGTAAACCCCGGAGTGAGGTTCTGCTTACCCGAGGCCG  
CTGCTGTGCGGAGACCCCGGGTGAAGCCACTGTCATCATGTCTGACCAGGAGGCAAACCTTCAACTGAGGACT  
TGGGGGATAAGAAGGAAGGTGAATATATTAACTCAAAGTCATTGGACAGGATAGCAGTGAGATTCACTTCAAAG  
TGGTTCCAATGAATTCATTCAGGTTTCTTTGAGGGTCAGAGAATTGCTGATAATCATACTCC



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**FIGURE 485**

GAAGGATTTGTAAACCCCGGAGTGAGGTTCTGCTTACCCGAGGCCGCTGCTGTGCGGAGACCCCGGGTGAAGCC  
ACTGTCATCATGTCTGACCAGGAGGCAAAACCTTCAACTGAGGACTTGGGGGATAAGAAGGAAGGTGAATATATT  
AAACTCAAAGTCATTGGACAGGATAGCAGTGAGATTCATTCAAAGTGAAAATGACAACACATCTCAAGAACTC  
AAAGAATCATACTGTCAAAGACAGGGCGTTCCAATGAATTCATTCAAGTTTCTCTTTGAGGGTCAGAGAATTGCT  
GATAATCATACTCCAAAAGAACTGGGAATGGAGGAAGAAGATGTGATTGAAGTTTATCAGGAACAAATGGGGGT  
CATTCAACAGTTTAGATATTCTTTTTATTTTTTTCTTTCCCTCAATCCTTTCTCATTTTTAAAAATAGTTCTT  
TTGTAATGTGGTGTTAAAAACGGAATTGAAAACCTGGCACCCCATCTCTTTGAAACATCTGGTAATCTGAATTCTA  
GTGCTCATTATTATTATTGTTTATTTTCATTGTGCTGATTTTGGTGATCAAGCCTCAGTCCCCTTCATATTAC  
CCTCTCCTTTTTATTGTGGTGATAAATAAGATTGACCAATGCAAGCGTTCATAATAACTTGCGAATTGGCCCTGA  
TGTTCTAGCATGTGATTACTTCACT

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**FIGURE 486**

GTTTGCCAAAATCCCAGGCAGCATGGACCTCAGTCTTCTCTGGGTACTTCTGCCCTAGTCACCATGGCCTGGGG  
CCAGTATGGCGATTATGGATACCCATACCAGCAGTATCATGACTACAGCGATGATGGGTGGGTGAATTTGAACCG  
GCAAGGCTTCAGCTACCACTGTCCCCAGGGGCAGGTGATAGTGGCCGTGAGGAGCATCTTCAGCAAGAAGGAAGG  
TTCTGACAGACAATGGAACCTACGCCTGCATGCCACGCCACAGAGCCTCGGGGAACCCACGGAGTGCTGGTGGGA  
GGAGATCAACAGGGCTGGCATGGAATGGTACCAGACGTGCTCCAACAATGGGCTGGTGGCAGGATTCCAGAGCCG  
CTACTTCGAGTCAGTGCTGGATCGGGAGTGGCAGTTTTACTGTTGTCGCTACAGCAAGAGGTGCCCATATTCTTG  
CTGGCTAACAAACAGAATATCCAGGTCATATGGTGAGGAAATGGACATGATTTCTACAATTATGATTACTATAT  
CCGAGGAGCAACAACCACTTTCTCTGCAGTGGAAAGGGATCGCCAGTGGAAAGTTCATAATGTGCCGGATGACTGA  
ATACGACTGTGAATTTGCAAATGTTTAGATTTGCCACATACCAAATCTGGGTGAAAGGAAAGGGGCCGGGACAG  
GAGGGTGTCCACATATGTTAACATCAGTTGGATCTCCTATAGAAGTTTCTGCTGCTCTCTTTCTCTCCCTGAG  
CTGGTAACTGCAATGCCAACTTCCTGGGCCTTTCTGACTAGTATCACACTTCTAATAAAATCCACAATTAACCA  
TGTTTCTCACTTTTACATGTTTCATAGCAACTGCTTTATATGACTGATGATGGCTTCCTTGACACCACATATA  
CAGTGCGCATGCTTACAGCCGGGCTTCTGGAGCACCAGCTGCAGCCTGGCTACTGCTTTTACTGCAGAATGAAC  
TGCAAGTTCAGCATAGTGGAGGGGAGAGGCAGAACTGGAGGAGAGGTGCAGTGAAGGTCTCTACAGCTAAGCCT  
GTTTGAATGATACGTAGGTTCCCCACAAAAGCAGGCTTTCTGCCCTGAGGGACATCTTCCCACTCCCTGCTCC  
ACATGAGCCATGCATGCTTAGCAATCCAAGTGCAGAGCTCTTTGCTCCAGGAGTGAGGAGACTGGGAGGTGAAAT  
GGGGAATGGAAGGGTTTGGAGGCAGAGCTGAAAACAGGGTTGGAAGGATTTCTGAATTAGAAGACAAACGTTA  
GCATACCCAGTAAGGAAAATGAGTGCAGGGGCCAGGGGAACCCGTGAGGATCACTCTCAAATGAGATTAAAAACA  
AGGAAGCAGAGAATGGTCAGAGAATGGGATTAGATTGGGAACCTGTGGGGATGAGAGTGACCAGGTTGAACTGG  
GAAGTGAAAAAGGAGTTTGAAGTCACTGGCACCTAGAAGCCTGCCCACGATTCTTAGGAAGGCTGGCAGACACCC  
TGGAACCCTGGGGAGCTACTGGCAAACCTCTCTGGATTGGGCCTGATTTTTTTGGTGGGAAAGGCTGCCCTGGGG  
ATCAACTTTCTTCTGTGTGTGGCTCAGGAGTTCTTCTGCAGAGATGGCGCTATCTTCTCTCTCTCTGTGATGTC  
CTGCTCCCAACCATTTGTACTCTTCATTACAAAAGAAATAAAAAATATTAACGTTT

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**FIGURE 487**

MDLSLLWVLLPLVTMAWGQYGDYGYPIQQYHDYSDDGWVNLNRQGFSYQCPQGQVIVAVRSIFSKEGSDRQWNY  
ACMPTPQSLGEPTECWEEINRAGMEWYQTCSNNGLVAGFQSRIFESVLDREWQFYCCRYSKRCPYSCWLTTEYP  
GHYGEEMDMISYNDYYIRGATTTTFAVERDRQWKFIMCRMTEYDCEFANV

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**FIGURE 488**

AGAGGAAGCCAAGAACGGTGAAAAGGCCAGGCGGAGTTCAGAGGAGGTGGACGGCCAGCACCCGGCCCCAAGAGGA  
GGTCCCGGAATCGCCCCAGACCTCTGGCCAGAGGCAGAAAATAGGTGTGGGAGCCCCAGGGAGGAAAAGCCAGC  
TGGAGAGGAAGCAGAGATGGAAAAGGCTACAGAGGTGAAGGGGGAGAGGGTGCAAAATGAAGAGGTGGGACCTGA  
ACATGACAGCCAAGAAACAAAGAAGCTGGAGGAGGGAGCTGCAGTGAAGGAGACCCCCACAGTCCCCCTGGAGG  
AGTGAAGGGCGGAGATGTCCCAAGCAGGAAAAAGGCAAGGAAAAACAACAGGAGGGGGCAGTGCTCGAGCCAGG  
CTGCAGCCCCCAGACCGGCCCTGCCAGCTGGAGACCAGCAGTGAGGTCCAGAGCGAGCCAGCAGTCCCCAAGCC  
GGAGGATGACACTCCTGTCCAGGACACTAAAATGTGAAGAACAGCTCATTGTGCCCCAGTGATGAAGTTGCTGGA  
CACATCTCTTTGCAGGTAGCAGCAACAGTTGTAGCAGCAGCAGACGAAGCCATTGCAGAGGCAGAATATGCTGAG  
TGTCTGGAGTCAGCCTGAAGACACAGGGTGGATTATTTCTGGCCTCCACACCAAACGTTCCCTTGCAGATGGAG  
ACTGAATCTGAGGGCAGCAGACTTTTATCAGCTTGAGTTTATGTCATTTGATGGACTTGGTTCAACAACAAGAAC  
TTACTTAAACAATGTACTGTGGTGATGAGTCCAGGGGCAGTGGTCAGCCTGTGGAGCCCTGGATGCTATCCAC  
ACCCACCTATCCCTGCAGCTAATTTAGCTGATCTCTAATTTAACTGAGCTCTAATTTAGCTGATCAGATTTTGCT  
TGGGTAAAGTTCCTTTTTAATGTTCTAAAGTGTTCACGGTTCTCAAATATCAGTTAAAACTAATTTTAGGTGGC  
CATAAACATAAAATAGAAACCTGTAAAGTTACAGAAGACCCTAAATTGTATCAAAACCTAGAGACAACCTTTTCA  
ATTTGATCCAAATTTGAAGTGGCCAACAGTCTTTAAACACTGGACTAGAAGAGATAATGATTGAAACATTTAA  
AAAAAAAAGTCTCCATTTCGAGGAGCTTTTCTGTCTGTGGTTTCCAGTTGGTGACCACCATGGGAGGTCTG  
CTGGCTCGGCTCACTCCCTTCTCCACCCCTTGAGAATGTGGAGAACTCCCATGGAGAGGCAGAATGGCAGGAGGT  
TTCATGTCCCGGTTGCATCTCTCTCTGAAAGAAAAGCAGTGATACCTGAATAATGCTGGCTCTCCGATTGATCC  
TGTGAGGATGAATTTGCATTTCCAGAATCCTTGAGCATGGATTAGATGTTTCTGGGAGGTGCCTTGAGTACCAT  
TATGTGCAAGCTACATAATTTAAACATTTTTCTTAGTTTTCCCTGGGAAGCTTTTCTTGACTCACAGCCCAGGTTC  
TTCTGCCCAACACAAAAGGAGTGAGTTGGGGTCTTTAGTCTCTTCTTATTGGGTAGCTCTTGCTTTAATATCTG  
TTTGGTGAGTGTAAGGGATTCTGCAAGGGACAGGGGGCTGACTACCCAGTCTTTGACTTGATCCTCTCCCTC  
TTCATACACTCCTGCTGAAAAATGTTAATCCAAATACACATTTAACTTAGGGTCGGTCCTTATTCTGATTTGAG  
TATTTTAATGTCTCAGTGTGCTGATTTGGTAGTTGGAAGAATTATCTTCTGGAGGTCTGTTAGACTACATCCCTA  
CACTGACTTCAGAAAACAGTCTGTGAGACAAAAGGCCTTATGTCACCACTGGTACCTCAGTTTCCTCATCCCAT  
TTACAGTTTTTCTAACTCCAGGGTAGTGTGTTAGTGTTAATATTTGGGATATATTTTTTTTCAAACCTGTTTTTAA  
GTAGTTTGTAATTTGTAACAACTTGTAACCTGGTTGGGACTGATATTGTCATAGCTATGATAAAGCTTTGGATAT  
TAGCAGAATTTGGGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 489**

MEKATEVKGERVQNEEVGPEHDSQETKKLEEGAAVKETPHSPPGGVKGGDVPKQEKGEKQQEGAVLEPGCSPQT  
GPAQLETSSEVQSEPAVPKPEDDTPVQDTKM

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**FIGURE 490**

GGACGTTGAGAGAACGAGGAGGAAGGAGAGAAAATGGCATCCATGGATTACAGTACCTATAGCCAAGCTGCAGCG  
CAGCAGGGGCTACAGTGCTTACAACACCCAGCCCCTCAAGGATATGCACAGACCACCCAGGCATATGGGCAACAA  
AGCTATGGAACCTATGGACAGCCCATTGATGTCAGCTATACCCAGGCTCAGACCACTGCAATCTATGGGCAGACC  
GCCTATGCAACTTCTTATGGACAGCCTCCCCTGGTTATACTACTCCAAGTGGCCCCCAGGCATACAGCCAGCCT  
GTCCAGGGGTATGGCACTGGTGCTTATGATACCACTGCTACAGTCACCACCACCCAGGCCTCCTATGCAGCT  
CAATCTGCATATGGCACTCAGCCTGCTTATCCAGCTTATGGGCAGCAGCCAGTAGCCACTGCACCTACAAGACTG  
CAGAATGGAACAAGCCCACTGAGACTAGTCAACCTCAATCTAGCACAGGGGGTTACAACCAGCCAGCCTAGGA  
TATGGACAGAGTAACTGCAGTTATCCCCAGGTACCTGGGAGCTACTCCATGCAGCCAGTCACCGCACCTCCATCC  
TACCCTCCTACCAGCTATTCTCTACACAGCCAACCTAGTTATGATCAGAGCAGTTACTCTCAGCAGAACACCTAT  
GGGAAACCGAGCAGCTATGGACAGCAGAGTAGCTATGGTCAACAAAGCAGCTATGGGCAGCTGCCTCCCCTAGT  
TACCCACCCCAAACTTGATCCTACAGCCAAGCTCCAAGTCAGTATAGCTAACAGAGCAGCAGCTACGGGCAGCAG  
AGTTCATTCTGACAGGACCACCCAGTAGCATGGGTGTTTATGGGCAGGAGTCTGGAGGATTTTCGGACTAGGA  
GAGAACCGGAGCATGAGTGGCCCTGATAACTGGGGCAGGGGAAGAGGGGGATTGATCGTGAGGCATGAGCAGA  
GGTGGGCGGGGAGGAGGATGCGGTGGAATGGGCAGCGCTGGAGAGCAAGTTGGCTTCAATAAGCCTGGTGGACCC  
ATGGATGAAGGACCAGATCTTGATCTAGGCCCACCTGTAGATCCAGATGAAGACTCTGACAACAGTGCATTTAT  
GTACAAGGATTAAATGACAATGTGACTCTAGATGATCTGGTAGACTTCTTTAAGCAGTGTTGGGTTGTTAAGATG  
AACAAGAGAAGTGAAGCAACCCATGATCCACACCTACCTGGACAAGGAACAAGAAAGCCCAAAGGTGATGCCACA  
GTGTCCTGTGAAGACTCACCTACTGCCAAAGCTGCCGTGGAATGGTTTGATGGGAAAGATTTCAAGGGAGCAAA  
CTTAAAGTCTCTCTTGCTCGGAAGAGGCCTCCAGTGAACAGTATGCAGGGTGGTATGCCACCCCATGAGGGCAGA  
GGGATGCCACCACCACTCTGCGGAGGTCCAGGAGGCCAGGAAGTCTGGGGGACCCATGGGTACATGGGAGGC  
CGTGGAGGAGATAGAGGAGGCCTCCCTCCAAGAGGACCCAGGGTTCCCGAGGGAACACCTCTGGAGGAGGAAC  
GTCCAGCACCAAGCTGGAGACAGGCAGTGTCCCAATCCGGGTGTGGAACCAGAACTTCGCCTGGAGAACAGAG  
AGCAACAAGTGTAAGGCTCCAAAGCCTGAAGGCTTCCTCCCGCCACCCTTCCCACCCCGGGTGGTGATCATGGC  
AGAGGTGGCCCTGGTGGCATGTGGGGAGGAAGAGGTGGCTCATGGATCATGGTGGTCCCGGTGGAATGTTTACA  
GGTGGCTGTGGTAGAGACAGAAGTGGCTTCTGTGGTGGCTGGGCATGGACCGAGGTGGCTTTGGTGGAGGAAGAC  
AAGGTGGCCCTGGGGGGCCCCCGGACCTTTGATGTAACCAATGGGAGGAAGAAGAGGAGGACGTGAAGGACCTGG  
AAAAACGGATAAAGCGAGCACTGTCAGGAGCGCAGAGATCAGCCCTACTAGATGCAGAGAACCCGAGAGCTGC  
ATTGACTACCAGATTTATTTTTTAAACCAGAAAATGTTTTAAATTTATAATTCCATATTTATAATGTTGGCCACA  
ACATTATGATTATTTCTTCTCTGTACTTTAGTATTTTTACCATTTGTGAAGAAACATTAAACAAGTTAAATGG  
TA

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**FIGURE 491**

MGVYGQESGGFSGLGENRSMSPDNWGRGRGGFDRGGMSRGGGGCGGMGSAGEQVGFNKPGGPMDEGPDLDLG  
PPVDPDESDNSAIYVQGLNDNVTLDDLVDFFKQCGVVKMNRTEQPMIHTYLDKETRKPKGDATVSCEDSPTAK  
AAVEWFDGKDFQGSKLKVS LARKRPPVNSMQGGMPPHEGRGMPPPLCGGPGGPGSPGGPMGHMGGRRGGDRGGLPP  
RGPQGSRGNTSGGGNVQHQAQDRQCPNPGCGNQNFARWTESNKCKAPKPEGFLPPFFPPPGGDHGRGGPGGMWGG  
RGGLMDHGPGGMFRGGCGRDRSGFCGGWAWTEVALVEEDKVALGGPRTFDVTNGRKKRRT

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**FIGURE 492**

AACGAGGAGGAAGGAGAGAAAATGGCATCCATGGATTACAGTACCTATAGCCAAGCTGCAGCGCAGCAGGGCTAC  
AGTGCTTACAACACCCAGCCCACTCAAGGATATGCACAGCGCCTATGCAACTTCTTATGGACAGCCTCCCACTGG  
TTATACTACTCCAAGTGGCCCCCAGGCATACAGCCAGCCTGTCCAGGGGTATGGCACTGGTGCTTATGATACCAC  
CACTGCTACAGTCACCACCACCCAGGCCTCCTATGCAGCTCAATCTGCATATGGCACTCAGCCTGCTTATCCAGC  
TTATGGGCAGCAGCCAGTAGCCACTGCACCTACAAGACTGCAGAATGGAAACAAGCCCACTGAGACTAGTCAACC  
TCAATCTAGCACAGGGGGTTACAACCAGCCAGCCTAGGATATGGACAGAGTAACTGCAGTTATCCCCAGGTACC  
TGGGAGCTACTCCATGCAGCCAGTCACCGCACCTCCATCCTACCCTCCTACCAGCTATTCTCTACACAGCCAAC  
TAGTTATGATCAGAGCAGTTACTCTCAGCAGAACACCTATGGGAAACCGAGCAGCTATGGACAGCAGAGTAGCTA  
TGGTCAACAAAGCAGCTATGGGCAGCTGCCCTCCCACTAGTTACCCACCCCAAAGTTGATCCTACAGCCAAGCTCC  
AAGTCAGTATAGCTAACAGAGCAGCAGCTACGGGCAGCAGAGTTCATTCTGACAGGACCACCCAGTAGCATGGG  
TGTTTATGGGCAGGAGTCTGGAGGATTTCCGGACTAGGAGAGAACCGGAGCATGAGTGGCCCTGATAACTGGGG  
CAGGGGAAGAGGGGGATTG



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**FIGURE 493**

AACGAGGAGGAAGGAGAGAAAATGGCATCCATGGATTACGTACCTATAGCCAAGCTGCAGCGCAGCAGGGCTAC  
AGTGCTTACAACACCCAGCCCCTCAAGGATATGCACAGACCACCCAGGCATATGGGCAACAAAGCTATGGAACC  
TATGGACAGCCCATTGATGTCAGCTATACCCAGGCTCAGACCACTGCAATCTATGGGCAGACCGCCTATGCAACT  
TCTTATGGACAGCCTCCCACTGGTTATACTACTCCAAGTCCCCCAGGCATACAGCCAGCCTGTCCAGGGGTAT  
GGCACTGGTGCTTATGATACCACCACTGCTACAGTCACCACCACCCAGGCCTCCTATGCAGCTCAATCTGCATAT  
GGCACTCAGCTGCTTATCCAGCTTATGGGCAGCAGCCAGTAGCCACTGCACCTACAAGACTGCAGAATGGAAAC  
AAGCCCACTGAGACTAGTCAACCTCAATCTAGCACAGGGGGTTACAACCAGCACCAGCTGGAGACAGGCAGTGT  
CCCAATCCGGGTGTGGAAACCAGAACTTCGCCTGGAGAACAGAGAGCAACAAGTGTAAGGCTCCAAAGCCTGAA  
GGCTTCCTCCCGCCACCCTTCCCACCCCGGGTGGTGATCATGGCAGAGGTGGCCCTGGTGGCATGTGGGGAGGA  
AGAGGTGGC

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**FIGURE 494**

GGAGGAAGGAGAGAAAATGGCATCCATGGATTACAGTACCTATAGCCAAGCTGCAGCGCAGCAGGGCTACAGTGC  
TTACAACACCCAGCCCACTCAAGGATATGCACAGACCACCCAGGCATATGGGCAACAAAGCTATGGAACCTATGG  
ACAGCCCATTGATGTCAGCTATACCCAGGCTCAGACCACTGCAATCTATGGGCAGACCGCCTATGCAACTTCTTA  
TGGACAGCCTCCCACTGGTTATACTACTCCAAGTGCACCCAGGCATACAGCCAGCCTGTCCAGGGGTATGGCAC  
TGGTGCTTATGATACCACTGCTACAGTCACCACCACCCAGGCCTCCTATGCAGCTCAATCTGCATATGGCAC  
TCAGCCTGCTTATCCAGCTTATGGGCAGCAGCCAGTAGCCACTGCACCTACAAGACTGCAGAATGGAACAAGCC  
CACTGAGACTAGTCAACCTCAATCTAGCACAGGGGGTTACAACAGCCAGCCAGCCTAGGATATGGACAGAGTAACTG  
CAGTTATCCCCAGGTACCTGGGAGCTACTCCATGCAGCCAGTCACCGCACCTCCATCCTACCTCCTACCAGCTA  
TTCCTCTACACAGCCAACTAGTTATGATCAGAGCAGTTACTCTCAGCAGAACACCTATGGGCAGCTGCCTCCAC  
TAGTTACCCACCCCAAACCTTGATCCTACAGCCAAGCTCCAAGTCAGTATAGCTAACAGAGCAGCAGCTACGGGCA  
GCAGAGTTTATTCTGACAGGACCACCCAGTAGCATGGGTGTTTATGGGCAGGAGTCTGGAGGATTTTCCGGACT  
AGGAGAGAACCGGAGCATGAGTGGCCCTGAT

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**FIGURE 495**

TTTCCGGTGCTATGCCCCGGAAGCGGAAGTGCATCTTCGGGCTGTCAGAGTTGGTCTGTTACTCGGTGGTGGCG  
GAGTCTACGGAAGCCGTTTTTCGCTTCACTTTTCCTGGCTGTAGAGCGCTTTCCCCCTGGCGGGTGAGAGTGCAGA  
GACGAAGGTGCGAGATGAGCACTATGTTTCGCGGACACTCTCCTCATCGTTTTTTATCTCTGTGTGCACGGCTCTGC  
TCGCAGAGGGCATAACCTGGGTCTGTTTTACAGGACAGACAAGTACAAGAGACTGAAGGCAGAAGTGAAAAAC  
AGAGTAAAAAATTGGAAAAGAAGAAGGAAACAATAACAGAGTCAGCTGGTCGTCTATCAATGGTTCGAATGAAAT  
CCATGTTTGCTATTGGCTTTTTGTTTTACTGCCCTAATGGGAATGTTCAATTCCATATTTGATGGTAGAGTGGTGG  
CAAAGCTTCCTTTTACCCCTCTTTCTTACATCCAAGGACTGTCTCATCGAAATCTGCTGGGAGATGACACCACAG  
ACTGTTCCCTTCATTTTCCTGTATATTCTCTGTACTATGTTCGATTTCGACAGAACATTCAGAAGATTCTCGGCCTTG  
CCCCCTTCACGAGCCGCCACCAAGCAGGCAGGTGGATTTCTTGGCCCACCACCTCCTTCTGGGAAGTTCTCTTGAA  
CTCAAGAACTCTTTATTTTCTATCATTCTTTCTAGACACACACATCAGACTGGCAACTGTTTTGTAGCAAGAG  
CCATAGGTAGCCTTACTACTTGGGCCTCTTTCTAGTTTTGAATTATTTCTAAGCCTTTTGGGTATGATTAGAGTG  
AAAATGGCAGCCAGCAAACCTTGATAGTGCTTTTGGTCCTAGATGATTTTTATCAAATAAGTGGATTGATTAGTTA  
AGTTCAGGTAATGTTTATGTAATGAAAAACAAATAGCATCCTTCTTGTTTCATTTACATAAGTATTTTCTGTGGG  
ACCGACTCTCAAGGCACTGTGTATGCCCTGCAAGTTGGCTGTCTATGAGCATTTAGAGATTTAGAAGAAAAATTT  
ACAAGCCAAATACATGACATAAGATCAATAAAGAGGCCAAATTTTTAGCTGTTTTATGTACAAGGAGAGATCTGT  
TTCATTTTGTGTTTGGCGTATTTCTAGATATAAGTTTTAGCATGGGCCAGGAAGGACTAAAATAAAAGTTTTTAAG  
GTA CTG

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**FIGURE 496**

MSTMFADTLLIVFISVCTALLAEGITWVLVYRTDKYKRLKAEVEKQSKKLEKKKETITESAGRQQKKKIERQEEK  
LKNNNRDLSMVRMKSMFAIGFCFTALMGMFNSIFDGRVVAKLPFTPLSYIQGLSHRNLLGDDTTDCSFIFLYILC  
TMSIRQNIQKILGLAPSRAATKQAGGFLGPPPPSGKFS

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**FIGURE 497**

AGACAGTTTTGAAGTTTTCAAAGACTGGCTCTGCTGTTAAGAAGTTGTACTTAAAGCGGAGGAGCTAAGCCACCT  
GCCAAAATGTGCAAAGGACTTGCAGCTTTGCCCCACTCATGCCCTGGAAAGGGCCAAGGAGATTAAGATCAAGTTG  
GGAATTCCTCTCCAGAAGCCAGACTCAGTTGGTGACCTTGTCTATTCCGTACAATGAGAAGCCAGAGAAACCAGCC  
AAGACCCAGAAAACCTCGCTGGACGAGGCCCTGCAGTGGCGTGATTCCCTGGACAAACTCCTGCAGAACAACTAT  
GGACTTGCCAGTTTCAAAGTTTCTGAAGTCTGAATTCAGTGAGGAAAACCTTGAGTTCTGGATTGCCCTGTGAG  
GATTACAAGAAGATCAAGTCCCTGCCAAGATGGCTGAGAAGGCCAAAGCAAATTTATGAAGAATTCATTCAAACG  
GAGGCTCCTAAAGAGGTGAATATTGACCACTTCACTAAGGACATCACAATGAAGAACCTGGTGGAACCTTCCCTG  
AGCAGCTTTGACATGGCCCAGAAAAGAATCCATGCCCTGATGGAAGGATTCTCTGCCCTCGCTTTGTGCGCTCT  
GAGTTTTATCAGGAGTTAATCAAGTAGTAATTTAGCCAGGCTATGAAATCATCCTGTGAGTTATTTCTCCATAA  
TAACCTGCAATTTCCCATTAATCTACATATCTTCCACAGCAGCTTTGCTCAGTGATACCCACATGGGAAAAATC  
CCAGGGGATGTGCTTACTCTTTTTGCCACACIGCTTTGGATACTTATCTACTGTCCGAAGGCCTTCTTTCCCC  
ACTCAATTCCTCTGCCCTGTTATTAATTAAGATATCTTCAGCTTGTAGTCAGACCCAATCAGAATCACAGAAAA  
ATCCTGCCTAAGGCAAAGAAATATAAGACAAGACTATGATATCAATGAATGTGGGTTAAGTAATAGATTTCCAGC  
TAAATTGGTCTAAAAAGAATATTAAGTGTGGACAGACCTATTTCAAAGGAGCTTAATTGATCTCACTTGTTTTA  
GTTCTGATCCAGGAGATCACCCCTCTAATTATTTCTGAACCTTGGTTAATAAAAGTTTATAAGATTTTATGAAG  
CAGCCACTGTATGATATTTAAGCAAATATGTTATTTAAATATTGATCCTTCCCTTGGACCACCTTCATGTTAG  
TTGGGTATTATAAATAAGAGATACAACCATGAATATATTATGTTTATACAAAATCAATCTGAACACAATTCATAA  
AGATTTCTCTTTTATACCTTCCTCACTGGCCCCCTCCACCTGCCCATAGTCACCAAATTCTGTTTTAAATCAATG  
ACCTAAGATCAACAATGAAGTATTTTATAAATGTATTTATGCTGCTAGACTGTGGGTCAAATGTTTCCATTTTCA  
AATTATTTAGAATTCTTATGAGTTTAAAATTTGTAAATTTCTAAATCCAATCATGTAAATGAAACTGTTGCTCC  
ATTGGAGTAGTCTCCACCTAAATATCAAGATGGCTATATGCTAAAAAGAGAAAATATGGTCAAGTCTAAATGG  
CTAATTGTCCTATGATGCTATTATCATAGACTAATGACATTTATCTTCAAAACACCAAATTGCTTTAGAAAAAT  
TAATGTGATTACAGGTAGAGGCCTTCTAGGTGAGACACTTTAAGGTACACTGCATTTTGCAGAAAAAAAAAAAA  
AAAAGTAATCTTTTAGCAACCCAGTATTCCTTCACTATTTGCTTCCCTGCATTAGCAAATTTTACTTACAGTCA  
AAAGTGAGATTTTACTCCTGACGTGTCTCATTACAGCTAAATAATAGGCCATAGGACTTTTGGTAGGTTTAA  
ACTTTTAATTCGTATTTTATGATTATAAGTCTTGCTAGAATTTTTCTAATCTTTAGTAGATTGATTAAATAA  
TGATTCACAGAATTTAGTAACAGAATCAAATAAGCCATGTATGAGGGTAATCGAGATGAGGATATTAACATAA  
AGAAATAGGGTGATTTTAAAGGATTAATAAAATTTCTGAAATGTTAAGTAG

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**FIGURE 498**

MCKGLAALPHSCLERAKEIKIKLGILLQKPDSVGDLVIPYNEKPEKPAKTQKTSLDEALQWRDSLDKLLQNNYGL  
ASFKSFLKSEFSEENLEFWIACEDYKKIKSPAKMAEKAKQIYEEFIQTEAPKEVNIDHFTKDITMKNLVEPSLSS  
FDMAQKRIHALMEKDSLPRFVRSEFYQELIK

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**FIGURE 499**

GACACCTTTTAAAATGCAGAACTAACTGAGGCATTTAGTAACCTTTGCTTTCAAATCAATAAAGTCAAATGTATG  
GAAACATTTTGTGCCCTACTCTCCATACCCTGTGTACTCAAATCTCTACTGTATGAATTATGCTTTAAGTAGAA  
TTCAGTGCCAAGGAGAACTTGGTGAAATAAATTATTTTAAATTTTTTTTATCCTTTACAAAGCCATGGATTTTA  
TTTGGTTGATGTGTGCTCTGTACACAAGCCATTTCAATAGGATGGAGCTGTTAATTATTTTCAAAGAGTAATAG  
ACATGCAAAAGTTTCAATAAAACTGGGCCATTAAACAAATAAATTAATAAACTAATAAGCATTCCCTTCTAGGTT  
TTTGCCAACTGCCTATCCAATAACAAATTTGAGAATCGTTGAAAAAGCTAGTTATATTTTCAAGAGAAATGATTTT  
CATTATTGAACTGTTCTCCCTAGCAGGCCATTTTCCCTTTTTCTGGGAGTTTAGCAAGTTTAGGAGAGAATAG  
TCATGAAAAGAAAGGGAAGAAAGGGGAGAAGGGAAGAGGTTAAAAAGTAAGTGCTCAGACCTATGAACGTAATCC  
CTTTGCTAGAAATATTTAAGAGCAGCTCAGCTTGGTTGAAACTGAGTTTTGTCTATCTCCATATTTGCAGGAAGG  
TATTTTCTGACTTGCAATGCAGCTAGATGTAAATTTTATTTTATCATCCTAGAAAGCCTTGACTAGAAAAATGA  
ATAAATATTGAGGGTTTCTGTCCATATCTGGCTTGCAATGTGCCAGAAAGCAGAGAATAGAAAATGTAATCTCCA  
ACATCCAAGCATCGAAACCCAAGGGTAGGCAATTTATGTAGGTTTTGGACATGAAGTTGGTGATCTTGGTT  
TATGCTGGCTCAACTGCTATTAAACCTCTCTGGCTTATAGTCTCTTCATTCTATTAGACAAGCACGTATCGAACA  
CTTGCTTCGCACAAGGCTCTTTAGTTAACAATTTAGCAGCTACTGTTTGTGTTAAACACACTTTTCACCAAAATAG  
GTTCTGAGGCAAACGAGAGCAATGACTATTTAAAGAAAGGCTTTCCAGCATCACTTACACATCCCAAACTAAA  
AAGATCAACTCTTCCAAGTGAAGAAAGACTCCTGGCTTTGAATGGAACTTACAGCAGAGAGTCACAGGCCACGG  
CAACAACAACGACAACAACAACAAATTTGGAATATTATTCTCAACTCACGTTTTAATAATACATCTTAATTATTTT  
TCTAGTAGAGAACTACAAATCAGCCTCTTCAACATTTATATACAGTTTAATAAGCCTCTTGCAAGTTACTTGTT  
CTCTCACCTGAGGTATTTTTTCTCCCACTTGCCCCCTGTTCTCCTCCCTTCTCTCCCTTTGCAAGAGGAA  
ATATTTAACATATTTGGGTCCAATTCATAATGTAATAATTAATACATTTAAAGCATTTAACCTCCTTTCTAGA  
AAAATGCACAGGCTAAGGCATAGACAAAACAAAGAGAAATGCTGAGAAATTTGCCACTGGAGACAAGCAATCTGA  
ATAAATATTTGCCAAAAGTTCTTTTATGTCATATAGTGTGAGGATTTGAAGGAGCTATTTTTTTTAAATGTTGCA  
ACTAGCAACTCATCTTCGGAAGACACAGCCAGGAGAATGAAGTAGAAGTGAAAGGTTTATAAATCCATTTGTAAG  
CATTATCCCATATATTTTAAATTCAAGAAAAATTGTGTTTATCTTTAGAATTTGTATTCAATACCTTTATGTAC  
TATGTGACTCATGCTTCTGGATAAATAAAGCACCAAAATATGTATCTGTAACCACAATCACACATATTATATTA  
TATATATCTATATAACAAAAAAAAAAAAAAAAAAAA

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**FIGURE 500**

MYGNILCPTLHTLCTQILYCMNYALSRIQCQGEINYNFFFIYKAMDFIWLMCALYTSHFNRMEELLIIFQR  
VIDMQKFQ



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**FIGURE 501**

AGCGGCCCCCTGCAGAGGCAGGTCCACCTGAGAGGCCGGCCGGCCTCCCAGCCCAGTGTTCATCCGGGGCATCACCT  
ACTATAAAGCCAAGGTCTCTGAAGAAGAGAATGACATTGAAGAGCAGCAAGATGAGTTTTTCAGCGGTGACAATG  
GAGTGGATTGTGCTGATTGAAGATCAGCTCCTGAGACACAACGGCCTGATGACCAGTGTACCCGGAGGCCATGCAG  
CCACCCGTCAGGGACACAGCACTGCTGTGACAAGCGACCTGAACGCTCGGACCGCACCTTGGTCTCAGCACTGC  
CACAGCCCTCGACCTCAGATCCCAGCATCGCCAACCATGCCTCAGTGGGACCAACACTCCAAACAACCTCGGTGT  
CTCCAGATCCCACAAGGGAGTCAGTCCTGCAGCCTTCTCCTCAGGTACCAGCCACCACTGTGGCCACACAGCCA  
CCCAGCAACCAGCAGCCCCAGCTCCTCCGGCAGTGTCTCCAGGGAGGCATTGATGGAAGCTATGCACACAGTCC  
CAGTGCCTCCCACCACAGTCAGAACAGACTCGCTGGGGAAAGATGCTCCTGCTGGGTGGGGAACAACCCCTGCCA  
GCCCCACGCTGAGCCCCGAAGAAGATGACATCCGGAATGTTCATAGGAAGGTGCAAGGACACTCTCTCCACAA  
TCACGGGGCCGACCACCCAGAACACATATGGGCGGAATGAAGGGGCCTGGATGAAGGACCCCTGGCCAAGGATG  
AGCGGATTTACGTAACCAACTATTACTACGGCAACACCCTGGTAGAGTTCCGGAACCTGGAGAAGTTCAAACAAG  
GTCGCTGGAGCAATTCCTACAAGTCCCGTACAGCTGGATCGGCACAGGCCACGTGGTATACAATGGCGCCTTCT  
ACTACAATCGCGCCTTCACCCGCAACATCATCAAGTACGACCTGAAGCAGCGCTACGTGGCTGCCTGGGCCATGC  
TGCATGACGTGGCCTACGAGGAGGCCACCCCTGGCGATGGCAGGGCCACTCAGACGTGGACTTTGCTGTGGACG  
AGAATGGCCTATGGCTCATCTACCCGGCCCTGGACGATGAGGGCTTCAGCCAGGAGGTCATTGTCTGAGCAAGC  
TCAATGCCGCGGACCTGAGCACACAGAAGGAGACCACATGGCGCACGGGGCTCCGGAGGAATTTCTACGGCAACT  
GCTTCGTCACTGTGGGGTGTGTATGCCGTGGATAGCTACAACCAGCGGAATGCCAACATCTCCTACGCTTTCG  
ACACCCACACCAACACACAGATCGTCCCCAGGCTGCTGTTTCGAGAATGAGTATTCCTATACGACCCAGATAGACT  
ACAACCCCAAGGACCGCCTGCTCTATGCCTGGGACAATGGCCACCAGGTCACTTACCATGTCATCTTTGCCTACT  
GACACCCCTTGTCACCAAGCAGAAGCACAGAGGGGTCACTAGCACCTTGTGTGTATGTGTGTGCGCGCACGTGT  
GTGTAGGTGGGTATGTGTTGTTTTAAAAATATATATTTTGTATAATATTGCAAATGTAAATGACAATTTGGG  
TCTATTTTTTTATATGGATTGTAGATCAATCCATACGTGTATGTGCTGGTCTCATCCTCCCCAGTTTATATTTT  
GTGCAAATGAACTTCTCCTTTTGACCAGTAACCACCTTCCTTCAAGCCTTCAGCCCCTCCAGCTCCAAGTCTCAG  
ATCTCGACCATGAAAAGGTTTCTTCATCTGGGTCTTGCAGGAGGCAGGCAACACCAGGAGCAGAAATGAAAGAG  
GCAAGAAAGAAGTGCTATGTGGCGAGAAAAAAGTTTAAATGTATTGGAGAAGTTTTAAAAAACCCAGAAAAACG  
CTTTTTTTTTTTAATAAAGAAGAAATTTAAATC

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**FIGURE 502**

MTSVTRRPAATRQGHSTAVTSDLNARTAPWSSALPQPSTSDPSIANHASVGPTLQTTSVSPDPTRESVLQPSPQV  
PATTVAHTATQQPAAPAPPAVSPREALMEAMHTVPVPPTTVRTDSLKGDAPAGWGTTTPASPTLSPEEEDDIRNVI  
GRCKDTLSTITGPTTQNTYGRNEGAWMKDPLAKDERIYVTNYYYGNTLVEFRNLENFKQGRWSNSYKLPYSWIGT  
GHVVYNGAFYYNRAFTRNIKYDLKQRYVAAWAMLHDVAYEEATPWRWQGHSDVDFAVDENGLWLIYPALDDEGF  
SQEVIVLSKLNAADLSTQKETTWRITGLRRNFYGNCFVICGVLYAVDSYNQRNANISYAFDTHNTQIVPRLLFEN  
EYSYTTQIDYNPKDRLLYAWDNGHQVTYHVIFAY

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**FIGURE 503**

GGCACGAGGGATGCAAGGAGATGAGACAGTTAGATTTACTTCCTCTTTTCTAATCTGAGAGGTTTCATGTTGAAG  
AAAATCAGTGTTGGGGTTGCAGGAGACCTAAACACAGTCACCAATGAAGCTGGGCTGTGTCCTCATGGCCTGGGCC  
CTCTACCTTTCCCTTGGTGTGCTCTGGGTGGCCAGATGCTACTGGCTGCCAGTTTGGAGACGCTGCAGGTGAG  
GGACCTGTCTGCACTGAGGAGAGCAGCTGCCACACGGAGGATGACTTGACTGATGCAAGGGAAGCTGGCTTCCAG  
GTCAAGGCCTACACTTTCAGTGAACCTTCCACCTGATTGTGTCTATGACTGGCTGATCCTCCAAGGTCCAGCC  
AAGCCAGTTTTTGAAGGGGACCTGTCTGGTTCTGCGCTGCCAGGCCTGGCAAGACTGGCCACTGACTCAGGTGACC  
TTCTACCGAGATGGCTCAGCTCTGGGTCCCCCGGGCCTAACAGGGAATTCTCCATCACCGTGGTACAAAAGGCA  
GACAGCGGGCACTACCACTGCAGTGGCATCTTCCAGAGCCCTGGTCTGGGATCCAGAAACAGCATCTGTTGTG  
GCTATCACAGTCCAAGAAGTGTTCAGCGCCAATTCTCAGAGCTGTACCCTCAGCTGAACCCCAAGCAGGAAGC  
CCCATGACCTTGAGTTGTGAGACAAAGTTGCCCTGCAGAGGTGAGCTGCCCGCCTCCTCTTCTCCTTCTACAAG  
GATGGAAGGATAGTGCAAAGCAGGGGGCTCTCCTCAGAATTCCAGATCCCCACAGCTTCAGAAGTCACTCCGGG  
TCATACTGGTGTGAGGCAGCCACTGAGGACAACCAAGTTTGGAACAGAGCCCCAGCTAGAGATCAGAGTGCAG  
GGTGCTTCCAGCTCTGCTGCACCTCCCACATTGAATCCAGCTCCTCAGAAATCAGCTGCTCCAGGAAGTCTCCT  
GAGGAGGCCCCCTGGGCCTCTGCCTCCGCCGCCAACCCCATCTTCTGAGGATCCAGGCTTTTCTTCTCCTCTGGGG  
ATGCCAGATCCTCATCTGTATCACCAGATGGGCCTTCTTCTCAAACACATGCAGGATGTGAGAGTCCCTCGGT  
CACCTGCTCATGGAGTTGAGGGAATTATCTGGCCACCAGAAGCCTGGGACCACAAAGGCTACTGCTGAATAGAAG  
TAAACAGTTCATCCATGATCTCACTTAACCACCCCAATAAATCTGATTCTTTATTTCTCTTCTCTGCTGCACA  
TATGCATAAGTACTTTTACAAGTTGTCCCAGTGTTTTGTTAGAATAATGTAGTTAGGTGAGTGTAATAAATTTA  
TATAAAGTGAGAATTAGAGTTTAGCTATAATTGTGTATTCTCTCTTAACACAACAGAATTCTGCTGTCTAGATCA  
GGAATTTCTATCTGTTATATCGACCAGAATGTTGTGATTTAAAGAGAACTAATGGAAGTGGATTGAATACAGCAG  
TCTCAACTGGGGGCAATTTTGCCCCCAGAGGACATTGGGCAATGTTTGAGACATTTTGGTCATTATACCTGGG  
GGGTGGGGGATGGTGGGATGTGTGTGCTACTGGCATCCAGTAAATAGAAGCCAGGGGTGCCGCTAAACATCCTA  
TAATGCACAGGGCAGTACCCACAAACGAAAAATAATCTGGCCCAAAATGTCAGTTGTACTGAGTTTGAGAAACCC  
CAGCCTAATGAAACCCTAGGTGTTGGGCTCTGGAATGGGACTTTGTCCCTTCTAATTATTATCTCTTTCCAGCCT  
CATTCAGCTATTCTTACTGACATACCAGTCTTAGCTGGTGTATGGTCTGTTCTTTAGTTCTAGTTTGTATCCC  
CTCAAAAGCCATTATGTTGAAATCCTAATCCCCAAGGTGATGGCATTAGAAGTGGGCCTTTGGGAAGTGATTAG  
ATCAGGAGTGCAGAGCCCTCATGATTAGGATTAGTGCCTTATTTAAAAAGGCCCCAGAGAGCTAACTCACCCCTT  
CCACCATATGAGGACGTGGCAAGAAGATGACATGTATGAGAACCAAAAAACAGCTGTGCGCAACACCGACTCTG  
TCGTTGCCTTGATCTTGAAGTCCAGCCTCCAGAAGTATGAGAAATAAAATTCTGTTGTTTGTAAAAA  
AAAAAA

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**FIGURE 504**

MKLGCVLMAWALYLSLGLWVAQMLLAASFETLQCEGPVCTEESCHTEDDLTDAREAGFQVKAYTFSEPFHLIV  
SYDWLILQGPAKPVFEGDLLVLRCAWQDWPLTQVTFYRDGSALGPPGPNREFSITVVQKADSGHYHCSGIFQSP  
GPGIPETASVVAITVQELFPAPILRAVPSAEPQAGSPMTLSCQTKLPLQRSAARLLFSFYKDGRIVQSRGLSSEF  
QIPTASEDHSGSYWCEAATEDNQVWKQSPQLEIRVQGASSSAAPPTLNPAPQKSAAPGTAPEEAPGPLPPPPTPS  
SEDPGFSSPLGMPDPHLYHQMGLLLKHMQDVRVLLGHLLMELRELSGHQKPGTTKATAE

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**FIGURE 505**

AAGCAGTGGTATCAACGCAGAGTGCCCATACGGCCGGGGGTGGCATCATGTGGCAGCTGCTCCTCCCAACTGCT  
CTGCTACTTCTAGTTTCAGCTGGCATGCGGACTGAAGATCTCCCAAAGGCTGTGGTGTTCCTGGAGCCTCAATGG  
TACAGGGTGCTCGAGAAGGACAGTGTGACTCTGAAGTGCCAGGGAGCCTACTCCCCTGAGGACAATTCCACACAG  
TGGTTTCACAATGAGAGCCTCATCTCAAGCCAGGCCTCGAGCTACTTCATTGACGCTGCCACAGTCGACGACAGT  
GGAGAGTACAGGTGCCAGACAAACCTCTCCACCCTCAGTGACCCGGTGCAGCTAGAAGTCCATATCGGCTGGCTG  
TTGCTCCAGGCCCTCGGTGGGTGTTCAAGGAGGAAGACCCTATTACCTGAGGTGTCACAGCTGGAAGAACACT  
GCTCTGCATAAGGTCACATAATTTACAGAATGGCAAAGGCAGGAAGTATTTTCATCATAATTCTGACTTCTACATT  
CCAAAAGCCACACTCAAAGACAGCGGCTCCTACTTCTGCAGGGGGCTTGTTGGGAGTAAAAATGTGTCTTCAGAG  
ACTGTGAACATCACCATCACTCAAGGTTTGGCAGTGTCAACCATCTCATCATTCTTTCCACCTGGGTACCAAGTC  
TCTTTCTGCTTGGTGATGGTACTCCTTTTTTGCACTGGACACAGGACTATATTTCTCTGTGAAGACAAACATTCTGA  
AGCTCAACAAGAGACTGGAAGGACCATAAATTTAAATGGAGAAAGGACCCTCAAGACAAATGACCCCCATCCCAT  
GGGGGTAATAAGAGCAGTAGCAGCAGCATCTCTGAACATTTCTCTGGATTGCAACCCTATCATCCTCAGGCCTC  
TCTACAAGCAGCAGGAAACATAGAACTCAGAGCCAGATCCCTTATCCAACTCTCGACTTTTCCTTGGTCTCCAGT  
GGAAGGGAAAAGCCCATGATCTTCAAGCAGGGAAGCCCCAGTGAGTÀGCTGCATTCTAGAAATTGAAGTTTCAG  
AGCTACACAAACACTTTTTCTGTCCCAACCGTTCCCTCACAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 506**

MWQLLLPTALLLLVSAGMRTE~~L~~PKAVVFLEPQWYRVLEKDSVTLKCQGAYSPEDNSTQWFHNESLISSQASSYF  
IDAATVDDSGEYRCQTNLSTLS~~D~~PVQLEVHIGWLLQAPRWVFKEEDPIHLRCHSWKNTALHKVTYLQNGKGRKY  
FHHNSDFYIPKATLKDSGSYFCRGLVGSKNV~~S~~SETVNITITQGLAVSTISSFFPPGYQVSFCLVMVLLFAVDTGL  
YFSVKTNIRSSTRDWKDHKFKWRKDPQDK

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**FIGURE 507**

ATGGCGGACGGGACCTGTCAGGACGTGGCCATCGTGGGCTACAAGGACTCGCCCTCCATCTGGGCCGCCGTCCCC  
GGGAAAACCTTCGCCAACATCGCGCCAGCTGAGGTTGGTGTCTGGCTGGCAAAGACAGGTCAAGATGGGGAATT  
TTGCATGGATCTTCGTATACCAAGAGTACCGGTGGAGCCCCACCTTCAATGTCACTGTCACCAAGACTGACAAG  
ACGCTAGTCCTGCTGATGGGCAAAGAAGGTGTCCACGGTGGTTTGATCAACAAGAAATGTTATGAAATGGCCTCC  
CACCTTCGGCGTTCCAGTACTTGA

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**FIGURE 508**

MADGTCQDVAIVGYKDSPSIWAAVPGKTFANIAPAEVGVLAGKDRSRWGILHGSSYTKSTGGAPT FNVTVTKTDK  
TLVLLMGKEGVHGGLINKKCYEMASHLRRSQY



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**FIGURE 509**

ATGTTGTAGGATTCAGTGGTGAATCCTCCACCCAGGCCTTGCTGCTGCAGCCTCTGCCAGAGCCAGCTCC  
TGGTGGACCCATGTGGAAATGGGACCTCCAGATCCCATCCTGGGAGTCACTGAAGCCTTTAAGAGGGACATCAAT  
AGCAAAAAGATGAATCTGGGAGTTGGGATGATAATGGGAAGCCGCTTTGCCAGTGGTGATGGTGATAAGGATGCC  
TGGGCTCTGCACCACTTCATCGAACAGGGCATTAAATGTTTGTCTCTGCCAATCATATGCCAAGAACATGGGCTTA  
TATGGTGAGCATGTAGGAGCCTTCACTGTGGTCTGCAAAGATGCAGATGAAGCCAAAAGGGTAGAGTCACAGTTG  
AAGATCTTGATTAGTCCCATGTATTCCAACCTCTCCCTCAATGGGGCCCAGATTGCTTCTACCATTCCAAACACC  
CCAGTTGGTTTGAAGGTCTGGGTCTGGGAGGCCTACATGATCATCCTCAGGTTATGAGTGACGAGAAAGAGACA  
ACACTGAGAGCAGTGGCTGTCAAGTACTGGATCAGAGTCCGGCTGTGCCACTTCCTTGAAACATTTCATGTCTCCG  
GACCTTACTGGCTGGAAAAAAGTGCAGCAGGAAGATGGCCTTACCTCACTTCTAGCTTCCAAGTCTCACAAGAGA  
GCACAGGCAGAACCGAAGCCACATCCAGGACCTGGGCTGAGAACATCTGGCACATGGAGCCTGTAG

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**FIGURE 510**

MVVGFTFESFHPGLAAAASARASSWTHVEMGPPDPILGVTEAFKRDINSKKMNLGVGMIMGSRFASGDGDKDA  
WALHHFIEQGINVCLCQSYAKNMGLYGEHVGAFTVVCKDADEAKRVESQLKILISPMYSNSPLNGAQIASTIPNT  
PVGLKVWVMGGLHDPQVMSDEKETTLRAVAVKYWIRVRLCHFLETFMSPDLTGWKKLQQEDGLTSLLASKSHKR  
AQAEPKPHPGPGLRTSGTWSL

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**FIGURE 511**

CGGTTGCTTGCTGTCCCAGCGGCGCCCCCTCATCACCGTCGCCATGCCCGGAGGTCTGCTTCTCGGGGACGTGGC  
TCCCAACTTTGAGGCCAATACCACCGTCGGCCGCATCCGTTTCCACGACTTTCTGGGAGACTCATGGGGCATTCT  
CTTCTCCCACCTCGGGACTTTACCCAGTGTGCACCACAGAGCTTGGCAGAGCTGCAAAGCTGGCACCAGAATT  
TGCCAAGAGGAATGTTAAGTTGATTGCCCTTTCAATAGACAGTGTGAGGACCATCTTGCTGGAGCAAGGATAT  
CAATGCTTACAATTGTGAAGAGCCACAGAAAAGTTACCTTTTCCCATCATCGATGATAGGAATCGGGAGCTTGC  
CATCCTGTTGGGCATGCTGGATCCAGCAGAGAAGGATGAAAAGGGCATGCCTGTGACAGCTCGTGTGGTGTGTTGT  
TTTTGGTCCTGATAAGAAGCTGAAGCTGTCTATCCTCTACCCAGCTACCACTGGCAGGAACCTTGTATGAGATTCT  
CAGGGTAGTCATCTCTCTCCAGCTGACAGCAGAAAAAGGGTTGCCACCCAGTTGATTGGAAGGATGGGGATAG  
TGTGATGGTCCTTCCAACCATCCCTGAAGAAGAAGCCAAAAAAGCTTTTCCCGAAAGGAGTCTTCACCAAAGAGCT  
CCCATCTGGCAAGAAATACCTCCGCTACACACCCAGCCTTAAGTCTCTTGGAGAAGTTGGTGTGTGAGCCAGA  
GGATGTGAGCTGCCAATTGTGTTTTCTGTCAGCAATTCATAAACACATCCTGGTGTATCACAGCCAAGGTTTT  
TAGGTTGCTATACCAATGGCTTATTAAATGAAATGGCACTAAAAGTTTCTTGAGATTCTTTATACTCTCTGCCT  
TCAGCAATCAATTCCATTACATACATCAGCACTCTGCTGGTTCTGTTTGAAATATGTTCTGTATTTAAACTCAA  
TCTTGTTGGATCTCTGCAGGGCTTGTGACCAATGAAGTCATATTGTTGATGGTTGACAAAGCTTGCTTCACTCC  
ATCAGAGAATGACTATCAATTTTTTTTTAACTGTCCTATCACGTCCTCTCCTGTACCCATTTGAAGAGTGGCA  
GAACTTGAAGTTCAACTTCCTCTGTAAATATCCAAGTATAAAGCCAGGAACCTCTAGAATAACCCAGATGCGCT  
TTAATTTTTTTTTAATATGTTTTGATCACAGAACTTCTAGAATAACCCAGATGCTCTTTCATATTCTTTTAATACA  
TCTTGATCACAGCTGGGGGAAAAAAGCTTTTTAATTCTGTACCTTCCTAGTAGATAAGTGAAGAGCAGGGAAAG  
AGACCTTTAAATATTTTGTATAAAAAATTTGTGATAAGTTTCTATCAAAATGGGGAGATTGCAGAAAAGGCTT  
CCCTTGGCTCCCAAGGAGGTGTAGCAGGTGTGAGCAATATTAGTGCCATGTGCCTTTCACACAGGGTTTGCATT  
ATCAGTCTGTTTTCCGATGATGTGTACATGAAAGAGTACACCATGTGAAGAGAAGAGAGAAATGATTGAAAATGTT  
TTAGTATAGAATCTTCTTGCAGTGGGTGCTATTTTCTAGATTTTACTTTTAGGGAACAAAATAAAATCCTTT  
GTT

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**FIGURE 512**

MPGGLLLGDVAPNFEANTTVGRIRFHDFLGDSWGILFSHPDFTPVCTTELGRAAKLAPEFAKRNVKLIALSIDS  
VEDHLAWSKDINAYNCEPTEKLPFPFIIDDRNRELAILLGMLDPAEKDEKGMPTARVVFVFGPDKKLKSILYP  
ATTGRNFDEILRVVISLQLTAEKRVATPVDWKDGDSVMVLPTIPEEEAKKLFPGVFTKELPSGKKYLRYPQP

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**FIGURE 513**

AGAGACCGTCCGAGGTAATTGCTGTCACGAGTGCACATTCTGAAAACAGGAGATTTAGTTCCTAAAAATGGGA  
AGAACCTACATTGTAGAAGAGACTGTTGGCCAGTATCTTCAAACATAAATCTCCAAGGAAAGGCTTTTGTCTCT  
GGCCTTTTAAATAGGACAGTGTTCGTACAAAAGGATTATGTGATTCTTGCCACTAGAACGCCACCCAAAGAGGAG  
CAAAGTGAGAACCTCAAACATCCCAAAGCTAAGTTGGATAACTTGGATGAAGAATGGGCCACAGAACATGCCTGC  
CAGGTATCCAGAATGCTACCAGGGGGACTTTTAGTTCTTGGAGTATTTATTATTACTACTTTAGAACTGGCAAAT  
GATTTTCAAATGCCCTGCGTAGACTAATGTTTGTGTTGGAAAAGTCTATAAATAGAAAAGAGATTGTGGAATTTT  
ACAGAGGAGGAAGTCTCAGAACGAGTGACACTTACATTTGTGCTTCTACAAAAAATATTTTGTCCGAATTTAT  
GATATCCATGATCCAAAGAGTTCAGCAAGACCAGCAGATTGGAAGTATCAAAGTGGATTATCATCTCATGGCTT  
TCTTTAGAGTGTACAGTTCACATTAATATTCACATCCCACTTTCTGCTACTTCTGTCTCAGCTATACTCTGGAGAAA  
AATACAAAGAAATGGACTTACACGCTGGGCCAAGGAAATAGAAAATGGTGTATTTATTGATTAATGGACAAGTTAA  
GATGAAGATTGTGACCTATTAGAAGGACAGAAAAATCTTCTAGAGGAAATACTCAAGCAACTAGTCATTCTTTT  
GATGTCAGAGTGCTAACGCAGTTGCTCCTGAATTCAGACCACAGATCCACAGCCACAGTCCAGATATGTAGCGGT  
TCTGTAAACCTTAAGGGTGCTGTGAAATGCAGAGCTTATATCCACAGCAGTAAACCCAAAGTTAAAGATGCTGTG  
CAGGCAGTAAAGAGGGATATATTGAACACAGTTGCTGATCGTTGTGAAATGCTATTTGAGGATCTGCTTTTGAAT  
GAAATTCAGAAAAAAGATTCTGAAAAAGAGTTCCACGTCCTCCCTTATCGAGTCTTTGTTCCCTTCCTGGA  
TCCACTGTAATGTTGTGTGATTATAAATTTGACGATGAGTCAGCTGAAGAAATCAGGGACCATTTTATGGAGATG  
TTGGATCACACAATTCAAATAGAAGATTGGAAATTGCAGAGGAAACAAACACAGCTTGATGAGTCTTCTATG  
AATAGTCAAGCTTCATTGGACAACACAGATGATGAACAACCAAAACAACCAATTAATACTACAATGTTATTGAAA  
ATTCAGCAAAACATAGGTGTGATTGCAGCATTTACAGTTGCAGTCCTTGCTGCGGTATCTCCTTTTCACTACTTC  
AGTGATTAGGGTGAGGCACAAAGAGTTTCTTGATCATCCAGAGAACATTGACAGACAATTATGAATAATAAGAT  
GTTAACAATCCATCTGTATTTAAACACTAGCAGCCAGATCTGCTGCCATGATGCCTATTTGGTGTGTTTCTGAT  
TAAAATGAAATCACAAGCTGCCTTGTTTAGCCTGCTTTACATTGTAGGTGGCCCGCATTTCCAGAAATAACGTTA  
TGCATCTAGATGGAAGCTGCATGTAAACAATCATTATTATCTATTTTAAAGCTTCAAATGATGGGATATGAT  
CATAGATTTTAGTCTTACTAATCTGAATCACATATTAATCAGGACATTAAAACTTTAACAGAGGCATGATGGCT  
CACACGTATAATCCTAATGCTTTGAGAGGCTGAGGTAGGAGCATCACCTGGGGCTGGGAGGGAGTTGGAGACCAG  
CCTGGATGACATAATGAGATTCTGTCTCTACTGGAIAAAAAAAAAAAAAA

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**FIGURE 514**

MLPGGLLVLGVFIIITTELANDFQNALRRLMFAVEKSINRKRLWNFTEEEVSERVTLHICASTKKIFCRTYDIHD  
PKSSARPADWKYQSGLSLSSWLSLECTVHINIHIPLSATSVSYLEKNTKNGLTRWAKEIENG VYLINGQVKDEDC  
DLLEGQKKSSRGNTQATSHSFDVRVLTQLLNSDHRSTATVQICSGSVNLKGAVKCRAIYHSSKPKVKDAVQAVK  
RDILNTVADRCEMLFEDLLLNEIPEKKDSEKEFHVLPYRVFVPLPGSTVMLCDYKFDDSAEEIRDHFMEMLDHT  
IQIEDLEIAEETNTACMSSSMNSQASLDNTDDEQPKQPIKTTMLLKIQQNIGVIAAFTVAVLAAGISFHYFSD

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**FIGURE 515A**

CGAGACGGAAGCGGGCTGGGAGGCGTTCGGCGCGGCGAGCGCACGTGGTGACGTGCGAGGGGGTGCGGCGCGAGCG  
GTCGGCGGGCGGCGGAGGCAGTGTCTCCCGGTCGCGCGTGGAGGTCGGTTCGCTCAGAGCTGCTGGGCGCAGTTTCT  
CCGCCTGCTGCTTCGGCGCGGCTGTATCGGCGAGCGAGCGAGTTCCCGCGAGTTCTCGGTGGCGCTCCCCCTTCC  
TTTCAGTCTCCACGGACTGGCCCTCGTCTTCTACTTGACCGTCCCGTCTTCCGCCGCTTCTGGCGCTTTCC  
GTTGGGCGGATTCCCGCCGCTTCTCTCTGCTTCCCATCGAAGCTCTAGAAATGAATGTTTCCATCTCTTCAGAG  
ATGAACCAGATTATGATGCATCATTATCACAGAAGAAATTCGTGTCTATAGCTTTTAAGGACTTGATTACATCAT  
TTTCAAGCCTGATAGTTTTGGGAATCACCATTAGAGCTTAAGACACACCTGCCTTCATTTCAACCACCTGTCTTCA  
TACCCTGACGAAGTGCACCTTTTAACACTCCTTTGTCCTTGGATTACTTAAGAGTTCAGAAATACATTTGCCA  
CCAACAGAGTAGCCAAATTTATAAGGAAAAATGATTCCCAATGGATATTTGATGTTTGAGGATGAAAAATTTATT  
GAGTCTTCTGTGCCAAATTAATGCCCTGAGGAAAAGTGGCCAGTTCTGTGATGTTGACTTCAGGTCTGTGGC  
CATGAAATGTTAGCACACAGAGCAGTGTCTAGCTTGTGTCAGTCCCTATTTATTTGAAATCTTTAATAGTGATAGT  
GATCCTCATGGAATTTCTCACGTTAAATTTGATGATCTCAATCCAGAAGCTGTTGAAGTCTTGTGTAATTATGCC  
TACACTGCTCAGTTGAAAGCAGATAAGGAATTGGTAAAAGATGTTTATTCTGCAGCAAAAAAGCTGAAGATGGAT  
CGAGTAAAGCAGGTTTGTGGTGATTATTTACTGTCTAGAATGGATGTTACCAGCTGCATCTCTTACCGAAATTTT  
GCAAGTTGTATGGGAGACTCCCGTTTGTGTAATAAGGTTGATGCTTATATTCAGGAGCATTGTGTACAAATTTCT  
GAAGAGGAGGAGTTTCTTAAGCTTCCAAGGCTAAAGTTGGAGGTAATGCTTGAAGATAATGTTTGCTTGGCCAGC  
AATGGCAAATTTATACAAAGGTAATCAACTGGGTGCAGCGTAGCATCTGGGAGAATGGAGACAGTCTGGAAGAG  
CTGATGGAAGAGGTTCAAACCTTGTACTACTCAGCTGATCACAAGCTGCTTGATGGGAACCTACTAGATGGACAG  
GCTGAGGTGTTTGGCAGTGATGATGACCACATTCAGTTTGTGTCAGAAAAAGCCACCACGTGAGAATGGCCATAAG  
CAGATAAGTAGCAGTTCAACTGGATGTCTCTTCTCCAAATGCTACAGTACAAAGCCCTAAGCATGAGTGGAAA  
ATCGTTGCTTCAGAAAAGACTTCAAATAACACTTACTTGTGCTGGCTGTGCTGGATGGTATATTCTGTGTCTATT  
TTTCTTCATGGGAGAAAACAGCCCACAGAGCTCACCAACAAGTACTCCAAAATAAGTAAGAGTTTAAGCTTTGAG  
ATGCAACAAGATGAGCTAATCGAAAAGCCCATGTCTCTATGCAGTACGCACGATCTGGTCTGGGAACAGCAGAG  
ATGAATGGCAAATCATAGCTGCAGGTGGCTATAACAGAGAGGAATGTCTCGAACAGTCGAATGCTATAATCCA  
CATACAGATCACTGGTCTTTCTTGCTCCCATGAGAACCAAGAGCCGATTTCAAATGGCTGTACTCATGGGC  
CAGCTCTATGTTGGTAGGTGGATCAAATGGCCACTCAGATGACCTGAGTTGTGGAGAGATGTATGATTCAAACATA  
GATGACTGGATTCTGTTCAGAATTGAGAACTAACCGTTGTAATGCAGGAGTGTGTGCTCTGAATGGAAGTTA  
TACATCGTTGGTGGCTCTGATCCATATGGTCAAAAAGGACTGAAAAATTGTGATGTATTGATCCTGTAAACAAAG  
TTGTGGACAAGCTGTGCCCCCTCTTAACATTCGGAGACACCAGTCTGCAGTCTGTGAGCTTGGTGGTTATTTGTAC  
ATAATCGGAGGTGCAGAATCTTGAATTTGTCTGAACACAGTAGAACGATACAATCCTGAAAATAATACCTGGACT  
TTAATTGCACCATGAATGTGGCTAGGCGAGGAGCTGGAGTGGCTGTTCTTAATGGAAGTCTGTTGTATGTGGT  
GGCTTTGATGGTTCTCATGCCATCAGTTGTGTGGAATGTATGATCCAAC TAGAAATGAATGGAAGATGATGGGA  
AATATGACTTCACCAAGGAGCAATGCTGGGATTGCACTGTAGGGAACACCATTTATGCAGTGGGAGGATTCGAT  
GGCAATGAATTTCTGAATACGGTGGAACTCTATAACCTTGAGTCAAATGAATGGAGCCCCATACAAAGATTTTC  
CAGTTTTTAACAAATTTAAGACCCTCTCAAATAACAGGCTTAGTGATGTAATTATGGTTAGTAGAGGTACACTTG  
TGAATAAGAGGGTGGGTGGGTATAGATGTGCTAACAGCAACACAAAGCTTTTGCATATTGCATACTATTAAAC  
ATGCTGTACATACTTTTTGGGTTTTATTTGGAAAGGAATGCAAGATGAAGGTCTGTTTTGTGTACTTTTAAAGACT  
TTGGTTATTTTACTTTTTGGAAAAGAATAAACCAAGAATTGATTGGGCACATCATTTCAAGAAGTCCCTCTCCT  
CCACATTTGTTTTGCCAATTTGCACATTAATGACTCTTCCCTCAAATGTGTACTATGGGGTAAAAGGGGTAGGG  
TTTAAAGATGTAGACAGTTGGGTTTTTTAAGGGCCCTTTTTCAATAACTGGAACACTCTATAACAAAGGATACTT  
ATTTAAATAGATGACATTGACTATTTTTGTTTTATTAAAGGAAGCTTACATGCCTACCAATATTTAATCTTTT  
ATGATTGCCTTTTTATAACTTTTTATATTCTCAGCAGAGTGCTTTACCAATTGAAGTAAATGTGGCAGGCTGGA  
GTTATTGAAGCAGAGTGGCAGTCTTCAGTTGCAGAGTAGGGTCTGTCTTTTAACTCTGAGTGCAAACTTCAG  
AGTTCTTGCTTGGCTGCAGTTTTTTTCCCTCAAGAATGCAGTACTAACATTTATTTGAGTGGAGTTACTGAACA  
GTAACATAGCTGTGATTTTTGGTATTTGAAACACTGGTTTTTAAATATTTTACTTGTGAGGGTATGTTTTATAT  
AGCAAGACATTATATAGCAGTAAAAAATGGTGTTTTATCTTCTATATAATTCCTGTTTTTATTATTAACAAAACA  
GTCCTAAATAGCAGCCCTCAATTGTGAAAAAATTTACTTTAACTACATTAGGTTGTGAATGCAGGTTTTATCAG  
AACTATGTTTTTGTTCAGTTTATCTGTTTCATATGGATAAATATTGGTTGGGATGACTTGGTGTCTAATGTGTAGT

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**FIGURE 515B**

GCTACACACCTAACTTATGGGGCCAAAATAGCATGTCCTAATGCTTGCTGCTGATTAAACACATTAAAGGTACT  
TTGCAGGAAATCCTTGCACCATGGGATTAATATCCAATTGCTGCTTGTACACTCATTCACTAAAGTTTTGA  
GAAATTTTTTTTTCCAGTAATGAGCTTAAGAAATTTGTGGAAAATAACTCACCTGGCATCTTACATCTGAAATAA  
GGAATGATATAAGGTTTTTTTTTCTCACAGAAGATGAAGCACACAGGAACCTAATGGGCCAACTGGGATGAGGTG  
ACTATTCTGAGATGACTATTCAGTGGCTAACTTGGGTTAGGAAGAAAATAATTAGGTATTTCTCCAAATGTTCA  
CTGGTACTCTGCCACTTTATTTCTCTCATCTGTTACACAAAGAACCACCAGGAAAGCAAATCAGTTTGGTTGGTA  
ACTCTGTAATTCCTAACTATCACTGGTTTGGTTCTGGACTAAAACCTACATTGACAGATTGAATTTGCCTAATATG  
ATGACTGTTTTTAATATGGATCTGTATGTGTTCTATTTCAGCACAAAGGAAATAAAATTTTAGTTGAGGATTCAGC



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**FIGURE 516**

MIPNGYLMFEDENFIESSVAKLNALRKSGQFCDVRLQVCGHEMLAHRAVLACCSPLYLFEIFNSDSDPHGISHVKE  
DDLNP EAVEVLLNYAYTAQLKADKELVKDVYSAKKLKMDRVKQVCGDYELSRMDVTSCISYRNFASCMGDSRLL  
NKVDAYIQEHLLQISEEEFLKLPRLKLEVMLEDNVCLPSNGKLYTKVINWVQRSIWENGDSLEELMEEVQTLYY  
SADHKLLDGNLLDGQAEVFGSDDDHQFVQKKPPRENGHKQISSSTGCLSSPNATVQSPKHEWKIVASEKTSNN  
TYLCLAVLDGIFCVIFLHGRNSPQSSPTSTPKLSKSLSFEMQQDELIEKPMSPMQYARSGLGTAEMNGKLIAGG  
YNREECLRTVECYNPHDHSFLAPMRTPRARFQMAVLMGQLYVVGGSNHGSDDLSCGEMYDSNIDDWIPVPELR  
TNRCNAGVCALNGKLYIVGGS DPYGQGLKNCDFDPVTKLWTSCAPLNIRRHQSAVCELGGYLYIIGGAESWNC  
LNTVERYNPENNTWTILIAMNVARRGAGVAVLNGKLFVCGGFDGSHAISCVEMYDPTRNEWKMMGNMTSPRSNAG  
IATVGNTIYAVGGFDGNEFLNTVEVYNLESNEWSPYTKIFQF

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**FIGURE 517**

CCTTTGCCGCTGGTCGGGATTGGGATGTCGAAGAACACAGTGTCTGCGGCCCGCTTCCGGAAGGTGGACGTGGAT  
GAATATGACGAGAACAAGTTCGTGGACGAAGAAGATGGGGGCGACGGCCAGGCCGGGCGGACGAGGGCGAGGTG  
GACTCCTGCCTGCGGCAAGGAAACATGACAGCTGCCCTACAGGCAGCTCTGAAGAACCCCCCTATCAACACCAAG  
AGTCAGGCAGTGAAGGACCGGGCAGGCAGCATTGTCTTGAAGGTGCTCATCTCTTTTAAAGCTAATGATATAGAA  
AAGGCAGTTCAATCTCTGGACAAGAATGGTGTGGATCTCCTAATGAAGTATATTTATAAAGGATTTGAGAGCCCG  
TCTGACAATAGCAGTGCTATGTTACTGCAATGGCATGAAAAGGCAGTTGCTGCTGGAGGAGTAGGGTCCATTGTT  
CGTGCTTTGACTGCAAGAAAACTGTGTAGTCTGGCAGGAAGTGGATTATCTGCCTCGGGAGTGGGAATTGCTGG  
TACAAAGACCAAAACAACCAATGCCACCGCTGCCCTGTGGGTAGCATCTGTTTCTCTCAGCTTTGCCTTCTTGC  
TTTTTCATATCTGTAAAGAAAAAATTACATATCAGTTGTCTTTAATGAAAATTGGGATAATATAGAAGAAAT  
GTGTTAAAATAGAAGTGTTCATCCTTTCAAACCATTTAGTGATGTTTATACCAATCTGTATATAGTATAATT  
TACATTCAGTTTAAATTGTGCAACTTTTAAACCCCTGTTGGCTGGTTTTTGTCTGTTTTGTTTTGTATTATTTT  
TAACTAATACTGAGAGATTTGGTCAGAATTTGAGGCCAGTTTCTAGCTCATTGCTAGTCAGGAAATGATATTTA  
TAAAAAATATGAGAGACTGGCAGCTATTAACATTGCAAACTGGACCATATTTCCCTTATTTAATAAGCAAAATA  
TGTTTTTGGATAAGTGGTGGGTGAATACCACTGCCAAGTTATAGCTTTGTTTTGCTTGCCCTCTGATTATCTG  
TACTGTGGGTTTTAAGTATGCTACTTTCTCTCAGCATCCAATAATCATGGCCCTCAATTTATTTGTGGTCACCCA  
GGGTTTCAAGCAAGAAGTCTTGCTTTATACAAATGTATCCATAAAATATCAGAGCTTGTGGGCATGAACATCAA  
ACTTTTGTTCCACTAATATGGCTCTGTTTGGAAAAAAGTCAAATCAGAAAGATGATTTGCAGAAAGAAAGAAA  
AACTATGGTGTAATTTAAACTCTGGGCAGCCTCTGAATGAAATGCTACTTTCTTTAGAAATATAATAGCTGCCTT  
AGACATTATGAGGTATACAACTAGTATTTAAGATACCATTAAATATGCCCCGTAAATGTCTTCAGTGTTCTTCAG  
GGTAGTTGGGATCTCAAAAGATTTGGTTCAGATCCAAACAAATACACATTCTGTGTTTTAGCTCAGTGTTTTCTA  
AAAAAAGAACTGCCACACAGCAAAAAATTGTTTACTTTGTGGACAAACCAATCAGTTCTCAAAAAATGACCG  
GTGCTTATAAAAAGTTATAAATATCGAGTAGCTCTAAACAAACACCTGACCAAGAGGGAAGTGAGCTTGTGCT  
TAGTATTTACATTGGATGCCAGTTTTGTAATCACTGACTTATGTGCAAACTGGTGCAGAAATCTATAAACTCTT  
TGCTGTTTTTGATACCTGCTTTTTGTTTCATTTTGTGTTTTGTGTTTTGTAAAAATGATAAACTTCAGAAAAATAAAT  
GTCAGTGTTGAATAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 518**

MSKNTVSSARFRKVDVDEYDENKFVDEEDGGDGQAGPDEGEVDSCLRQGNMTAALQAALKNPPINTKSQAVKDRA  
GSIVLKVLI SFKANDIEKAVQSLDKNGVDLLMKYIYKGFESPSDNSSAMLLQWHEKALAAGGVGSIVRVLTARKT  
V

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FIGURE 519A

GCCAGGCAGAGTCCTACTATAGGCATGCAGCTCAGCTTGTCCCCTCCAATGAAGCATTGCTGTGAAGTTCCTTT  
CCCAGCTGCCTCCACTAATCTGCAAAAAGCACTTTCTAAAGCACTGGAAAGCCGAGATGAGGTGAAAACCAAGTG  
GGGTGTTTTCTGACTTCATCAAGGCCCTTTATTAAATTCCACGGTCATGTGTACCTGAGTAAGAGCTTGAAAAGTT  
GAGCCCTCTTCGAGAGAAAATTGGAAGAACAGTTTAAAGAGGCTGCTATTCCAAAAGCTTTCAACTCTCAGCAGTT  
AGTTCATGTCACTGTCTAATACCTGTTTCAACTTCATCACCTTCGTGACTTTAGCAATGAAACCGAGCAGCACAC  
TTATAGCCAAGATGAGCAGCTATGTTGGACACAGTTGCTGGCCCTCTTTATGCTCTTTTCTTGGCATCCTGTGCAA  
GTGTCTCTACAGAAATGAGTCTCAGGAGGAGTCTACAATGCCTATCCTCTTCCAGCAGTCAAGGTCTCCATGGA  
CTGGCTAAGACTCAGACCCAGGGTCTTTTCAGGAGGCACTGGTGGATGAAAGACAGTACATTTGGCCCTGGTTGAT  
TTCTCTTCTGAATAGTTTCCATCCCCATGAAGAGGACCTCTCAAGTATTAGTGCGACACCACTTCCAGAGGAGTT  
TGAATTACAAGGATTTTGGCATTGAGACCTTCTTTTCAGGAACTTGGATTTTCCAAAGGTCAACAGGGTATTAC  
AGGGGACAAAAGAGGCCAGCAACGACGAATACGACAGCAACGCTTGATCTCTATAGGCAAATGGATTGCTGATAA  
TCAGCCAAGGCTGATTCACTGTGAAAATGAGGTAGGGAAATTGTTGTTTATCACAGAAATCCCAGAATTAATACT  
GGAAGACCCCACTGAAGCCAAAGAGAACCTCATTCTGCAAGAAACATCTGTGATAGAGTCGCTGGCTGCAGATGG  
GAGCCCAGGGCTAAAATCAGTGCTATCTACAAGCCGAAATTTAAGCAACAACCTGTGACACAGGAGAGAAGCCAGT  
GGTTACCTTCAAAGAAAACATTAAGACACGAGAAGTGAACAGAGACCAAGGAAGAAGTTTTCTCCCAAAGAGGT  
GAGAAGGGACTATAGCAAAGGAATAACTGTAACATAAGATGATGGAAAGAAGGACAACAACAAGAGGAAAACCTGA  
AACCAAGAAATGCACCTTAGAAAAGTTACAGGAAACAGGAAAGCAGAATGTGGCAGTGCAGGTAAAATCCCAGAC  
AGAACTAAGAAAGACTCCAGTGTCTGAAGCCAGAAAACACCTGTAACCTCAAACCCCAACTCAAGCAAGTAACTC  
CCAGTTTCATCCCCATTCATCACCTTGGAGCCTTCCCTCTCTTCCCAGCAGGCCAGGGTTTCCGCCCCAACATA  
TGTTATCCCCCGCCTGTGGCATTCTTCTATGGGCTCAGGTTACACCTTCCCAGCTGGTGTCTGTCTCCAGGAAC  
CTTCTTTCAGCTACAGCTCACTCTCCAGCAGGAAACCAGGTGCAAGCTGGGAAACAGTCCCACATTCCTTACAG  
CCAGCAACGGCCCTCTGGACAGGGCCATGAACCAGGGACCTCAACAATCACAGCCACCTTCCCAGCAACCCCT  
TACATCTTTACCAGCTCAGCCAACAGCAGTCTACAAGCCAGCTGCAGGTTCAAGCTCTAACTCAGCAACAACA  
ATCCCTTACAAAAGCTGTGCCGGCTTTGGGGAAAAGCCCGCTCACCACTCTGGATTCCAGCAGTATCAACAGGC  
AGATGCCTCCAAACAGCTGTGGAATCCCCCTCAGGTTCAAGGCCCATTAGGGAAAATTATGCCTGTGAAACAGCC  
CTACTACCTTCAGACCCAAGACCCCATAAAACCTGTTTGGCCGTCATTGCAACCTCCTGTAATGCAGCAGCAGCC  
TCTAGAAAAAAAATGAAGCCTTTTCCCATGGAGCCATATAACCATAATCCCTCAGAAGTCAAGGTCCCAGAATT  
CTACTGGGATTCTTCTACAGCATGGCTGATAACAGATCTGTAATGGCACAGCAAGCAAACATAGACCGCAGGGG  
CAAACGGTCACCAGGAATCTTCCGTCCAGAGCAGGATCTGTACCCAGAATGCCGTTTGAGAAATCCTTATTGGA  
GAAGCCCTCAGAGCTCATGTACATTATCCTCTTCTGTCCCTCACCGGATTCTCTCTCAATCAGGAAAGATA  
CCCAATAATAGTATGTTCAATGAGGTATATGGGAAAACCTGACATCCAGCTCCAAAGCAGAACTCAGTCCCTC  
AATGGCCCCCAGGAAACATCTCTGTATTCCCTTTTTGAAGGGACTCCGTGGTCTCCATCACTTCCGTCCAGTTC  
AGATCATTCAACACCAGCCAGCCAGTCTCCTCATTCTCTAACCACAGCAGCTACCCAGCTCTCTCCAACACA  
CAACCATAATTCTGTTCCATTCTCCAATTTTGGACCCATTGGGACTCCAGATAACAGGGATAGAAGGACTGCAGA  
TCGGTGGAAAACCTGATAAGCCAGCCATGGGTGGGTTTGGCATTGATTATCTCTCAGCAACGTCATCCTCTGAGAG  
CAGTTGGCATCAGGCCAGCACTCCGAGTGGCACCTGGACAGGCCATGGCCCTCCATGGAGGATTCTCTGTCTGT  
CCTCATGGAAAGCCTAAAGTCTATCTGGTCCAGTTCCATGATGCATCCTGGACCTTCTGCTCTGGAGCAGCTGTT  
AATGCAGCAGAAGCAGAAACAGCAACGGGGACAAGGCACCATGAACCCCTCCACACTGAGGCCAAAGTGGCAACCT  
GGGAATGAAGGCTCCATAAACCATGGCATGTTGGGTTTGCAGGACTGGCCACACAGTCCCCTGCAGGTGGCAGC  
CCTCTTTCTGTTTTCTCGCTGTCAAGAGGGTGTAAAGTATTCCACCAGCCCGCTGAGTGTGCACGAAATGTTGCA  
GTGCAACAAAAAAGAAAATCCATCAGGAACTCTCCGTCCCCCGGGCCTTCCGAGGGAGAGAGAGAGGAACTG  
CTGTTTATCTCACTAGTTACTTGGTATCACCGCCTCTCACCTTCTCCATCGTGCATGTCCCCAGCCACATGGGA  
AGTGAAGCTGAGAAGGGAAGGCAGATGGGAGAAGCCAATGGGAACCTTCTCAGTCTTTTTTCTCTTTGGGGAA  
TAAATAGGAATCCATTAATGATTGCTTTGTGACTGAGAATGTAGTTGAAATTAAACATCTTTTATTATTATTA  
CTCTCAGTAGTAAATATCACACTGAATTCTTCCATACACAGGTGTGCTTCTAGTCAGTGTGTAGCAAGGAAAGC  
CCGTTCACTGCTCCTGTGAGAGGTTGGTGGTGACAGGATGGGGAACCGACCTTTCAGCCAGTGGAAATGTTCC  
ATAAGGGAGAGTTCAAGGCCGTGTGAGAAGGCTCTGGTAGGCCCTTCTCTGGCCAGGAGACTCCAGCAGGGAATGC  
CCTTCACTCTGTAGGTGCTCGAGCCCCAATCGAGGATACAGTGTGGGTGGTGGTGTGGGCTGGACTAGCAGGTA

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**FIGURE 519B**

GACTGCTGTAGGATTTCAAATTACGTTTTTGTTCCTGTACATTTTACAGTCGCACAGCAAGCAGTCTCACAGAA  
GGCAGGCTAGTCCATTACAGCCTGACACGTTCTAATAGGTAGAAGCTTTTCAGTGTGGTTATTTTTCTTTGGTT  
GGTTTTTGTGCCCCCATTCTACTTCCCACCCTCCTGCCCCATCTCCATCCCTTCTTTACCCAATGCTGTATGCT  
AGTAATTGTTTTTATTCTAATGTGTGCAACATCACATCTCCCCAAGAAGCAACAGCATGGGGTCCAGCAGTTGG  
GGCCCAAAGACAGTCTGAAGAGGAAGGAAGCAGCAGTATCTGCGTAGCCACAGAGGGCCAGGCCCCTGCCCA  
GCTGCAGTCTCCAGCCTCCACTTTCAGAGTGAATTTCAAGGCAGCACGGACATGTGCCCATCAGGCACAGAAGA  
AAACACGACGTCGTCCATTTTGAAGAGACGAAAGAAAGGAAAATAAACTCTTTGTATGATATTTATTAGGAGGA  
AAGAGGACTGAAAATGTTCTTGTGTAGAAACAGAAGGACAGCATTCTGTTAGTCATTTCTGGAAAAGTAATAT  
TTTAAGGGGAAATTATGGAAACAATCTAATTGTTCAATTGCTGTGCTAGTGGTAGGGTTTATTTTCTGGGAGGTC  
TCTCCTTTGTGTGCTGTATGTTTGTGTACACACACGTGCCCATCTGCTGTCCCAGAGGGGAGGGGTTGTGTGTG  
CGAGTGTATGGAGTTAGTGTGGAACCTTAAGAGCTGGAAGACAGCTGTAGAGCAAAGCACATCCAGGAGCCCCAGT  
TGTCACGTGCAGTCTGGGCAACCCAGCAATGAAAAGGGGTGAGATAACGCTCATTGCTCTTCAGAGAGAGTGGTT  
GGAGCCCCCCCCCGCCCCGTATGCTTACATTATTGCTCTTTTAGTTTGACATGGTGTGTTGGGTTTTGTTTTTTGA  
AAGGTCTGAAAAGGTGAAGCCCCCTACCCAATGGCAATATGAAACCTTTTGTGCTTCTCTTCAGCCCCCTTCCCTG  
TGTCCACCTTTCTCTCTCTTCCCAAGCCTTTTTCTACTACCTTTACCCAGTTTGTGTGTTTGAGCTCTGCATT  
CAGGCAGCTGCAACATTCCAGTGTGTTGAACTGTCACTGATTCTTGCGCCCTAGACAAGCTAACCAGGTTTACCAT  
CTCACTCCCAGTAATACCCAGCTCCTATCTAAAGCCCCATTCTGCATGAGAATTTGGTGTGTTGGAATGTTTTCTG  
ACTCTTGGGGCGGGATTCTCGCCTTATCATCCTCAGTGTGGAGTAATGAGGGGGAGGAGAATCTTTATCAGAAA  
CTGGTTTTGTGTAGTAACTTTCTTTTGTGGTTTTTTGTTTTGTTTTCTGGGTTTTGTTTTTGTTTTTGTCTGT  
GCAAGACCTGCAGCTGCTGAAAATCAGCTTTGCCTTTAATTAAACCATGTTCTCTCC

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**FIGURE 520**

MSFLGILCKCPLQNESQEESSYNAYPLPAVKVSMDWLRLRPRVFQEAVVDERQYIWPWLISLLNSFHPHEEDLSSI  
SATPLPEEFELQGFLALRPSFRNLDFSQGHQGITGDEKQQRRIQQRLISIGKWIADNQPRLIQCENEVGKLLF  
ITEIPELILEDPSEAKENLILQETSVIESLAADGSPGLKSVLSTSRNLSNNCDTGEKPVVTFKENIKTREVNRDQ  
GRSFPPKEVRRDYSKGITVTKNDGKKDNNKRKTETKKCTLEKLQETGKQNVAVQVKSQTELKTPVSEARKTPVT  
QTPTQASNSQFIPIHHPGAFPPPLPSRPGFPPPTYVIPPPVAFSMGSGYTFFAGVSVPGTFLQPTAHSPAGNQVQA  
GKQSHIPYSQQRPSGPGPMNQGPQQSQPPSQQLTSLPAQPTAQSTSQLQVQALTQQQQSPTKAVPALGKSPPHH  
SGFQQYQQADASKQLWNPPQVQGFLGKIMPVKQPYLQTDPIKLFEPQLQPPVMQQQPLEKKMKPFPMEPYNHN  
PSEVKVPEFYWSSYSMADNRSVMAQQANIDRRGKRSPGIFRPEQDPVPRMPFEKSLLEKPSSELMSSSSFLSLT  
GFSLNQERYPNNSMFNEVYGNLTSSSKAELSPSMAPQETSLSLFEGTPWSPSLPASSDHSTPASQSPHSSNPS  
SLPSSPPTHNNHNSVPFSNFGPIGTPDNRRRTADRWKTDKPAMGGFGIDYLSATSSSESSWHQASTPSGTWTGHG  
PSMEDSSAVLMESLKSIWSSSMHPGPSALEQLLMQQKQKQQRGQGTMNPPH

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**FIGURE 521A**

ACCACCTGATCAAGGAAAAGGAAGGCACAGCGGAGCGCAGAGTGAGAACCACCAACCGAGGCGCCGGGCAGCGAC  
CCCTGCAGCGGAGACAGAGACTGAGCGGCCCGGCCCGCCATGCCTGCGCTCTGGCTGGGCTGCTGCCTCTGCTT  
CTCGCTCCTCCTGCCCGCAGCCCGGGCCACCTCCAGGAGGGAAGTCTGTGATTGCAATGGGAAGTCCAGGCAGTG  
TATCTTTGATCGGGAACCTCACAGACAACTGGTAATGGATTCCGCTGCCTCAACTGCAATGACAACACTGATGG  
CATTCACTGCGAGAAGTGCAAGAATGGCTTTTACCGGCACAGAGAAAGGGACCGCTGTTTGCCCTGCAATTGTAA  
CTCCAAAGGTTCTCTTAGTGCTCGATGTGACAACCTCCGGACGGTGACGCTGTAAACCAGGTGTGACAGGAGCCAG  
ATGCGACCGATGTCTGCCAGGCTTCCACATGCTCACGGATGCGGGGTGCACCCAAGACCAGAGACTGCTAGACTC  
CAAGTGTGACTGTGACCCAGCTGGCATCGCAGGGCCCTGTGACGCGGGCCGCTGTGTCTGCAAGCCAGCTGTCAC  
TGGAGAACGCTGTGATAGGTGTGATCAGGTTACTATAATCTGGATGGGGGGAACCCCTGAGGGCTGTACCCAGTG  
TTTCTGTATGGGCATTACGCCAGCTGCCGACGCTCTGCAGAATACAGTGTCCATAAGATCACCTCTACCTTTCA  
TCAAGATGTTGATGGCTGGAAGGCTGTCCAACGAAATGGGTCTCCTGCAAAGCTCCAATGGTCACAGCGCCATCA  
AGATGTGTTTAGCTCAGCCCAACGACTAGACCTGTCTATTTTGTGGCTCCTGCCAAATTTCTTGGGAATCAACA  
GGTGAGCTATGGTCAAAGCCTGTCTTTGACTACCGTGTGGACAGAGGAGGCAGACACCCATCTGCCATGATGT  
GATTCTGGAAGGTGCTGGTCTACGGATCACAGCTCCCTTGATGCCACTTGGCAAGACACTGCCTTGTGGGCTCAC  
CAAGACTTACACATTACAGTTAAATGAGCATCCAAGCAATAATTGGAGCCCCAGCTGAGTTACTTTGAGTATCG  
AAGGTTACTGCGGAATCTCACAGCCCTCCGCATCCGAGCTACATATGGAGAATACAGTACTGGGTACATTGACAA  
TGAGACCTGATTTTACGCCCGCCCTGTCTCTGGAGCCCCAGCACCCCTGGGTTGAACAGTGTATATGTCTGTGG  
GTACAAGGGGCAATTTCTGCCAGGATTGTGCTTCTGGCTACAAGAGAGATTACGCGAGACTGGGGCCTTTTGGCAC  
CTGTATTCCTTGTAACTGTCAAGGGGGAGGGGCCCTGTGATCCAGACACAGGAGATTGTTATTACAGGGGATGAGAA  
TCCTGACATTGAGTGTGCTGACTGCCCAATTGGTTTCTACAACGATCCGCACGACCCCCGAGCTGCAAGCCATG  
TCCCTGTCTATAACGGGTTACAGTGTCTAGTGATGCCGAGACGGAGGAGGTGGTGTGCAATAACTGCCCTCCCGG  
GGTCACCGGTGCCCGCTGTGAGCTCTGTGCTGATGGCTACTTTGGGGACCCCTTTGGTGAACATGGCCCAGTGAG  
GCCTTGTGAGCCCTGTCAATGCAACAACAATGTGGACCCCAAGTGCCCTCTGGGAATTGTGACCGGCTGACAGGCAG  
GTGTTTGAAGTGTATCCACAACACAGCCGGCATCTACTGCGACCAAGTGCAAAGCAGGCTACTTCGGGGACCCATT  
GGCTCCCAACCCAGCAGACAAGTGTGAGCTTGCAACTGTAACCCCATGGGCTCAGAGCCTGTAGGATGTGCAAG  
TGATGGCACCTGTGTTTGCAAGCCAGGATTGGTGGCCCCAACTGTGAGCATGGAGCATTAGCTGTCCAGCTTG  
CTATAATCAAGTGAAGATTAGATGGATCAGTTTATGAGCAGCTTCAGAGAATGGAGGCCCTGATTTCAAAGGC  
TCAGGGTGGTGTGAGTAGTACCTGATACAGAGCTGGAAGGCAGGATGCAGCAGGCTGAGCAGGCCCTCAGGA  
CATTCTGAGAGATGCCAGATTTGAGAAGGTGCTAGCAGATCCCTTGGTCTCCAGTTGGCCAAGGTGAGGAGCCA  
AGAGAACAGCTACCAGAGCCGCTGGATGACCTCAAGATGACTGTGGAAAGAGTTCGGGCTCTGGGAAGTCAGTA  
CCAGAACCAGGTTCCGGGATACTCACAGGCTCATCACTCAGATGCAGCTGAGCCTGGCAGAAAGTGAAGCTTCCTT  
GGGAAACACTAATCTTCTGCCCTCAGACCACTACGTGGGGCCAAATGGCTTTAAAAGTCTGGCTCAGGAGGCCAC  
AAGATTAGCAGAAAGCCACGTTGAGTCAGCCAGTAACATGGAGCAACTGACAAGGGAACTGAGGACTATTCCAA  
ACAAGCCCTCTCACTGGTGCACAAGGCCCTGCATGAAGGAGTCGGAAGCGGAAGCGGTAGCCCGGACGGTGCTGT  
GGTGCAAGGGCTTGTGGAAAAATTTGGAGAAAACCAAGTCCCTGGCCCAGCAGTTGACAAGGGAGGCCACTCAAGC  
GGAAATTGAAGCAGATAGGTCTTATCAGCACAGTCTCCGCCTCCTGGATTAGTGTCTCGGCTCAGGGAGTCAG  
TGATCAGTCCTTTCAGGTGGAAGAAGCAAAGAGGATCAAACAAAAAGCGGATTCCTCTCAAGCCTGGTAACCAG  
GCATATGGATGAGTTCAAGCGTACACAGAAGAATCTGGGAACTGGAAAGAAGAAGCACAGCAGCTCTTACAGAA  
TGGAAAAAGTGGGAGAGAGAAATCAGATCAGCTGCTTTCCCGTGCCAATCTTGCTAAAAGCAGAGCACAAAGAAGC  
ACTGAGTATGGGCAATGCCACTTTTATGAAGTTGAGAGCATCCTTAAAAACCTCAGAGAGTTTGACCTGCAGGT  
GGACAACAGAAAAGCAGAAGCTGAAGAAGCCATGAAGAGACTCTCCTACATCAGCCAGAAGGTTTCAGATGCCAG  
TGACAAGACCCAGCAAGCAGAAAAGAGCCCTGGGGAGCGCTGCTGTGATGCACAGAGGGCAAAGAATGGGGCCGG  
GGAGGCCCTGGAAATCTCCAGTGAGATTGAACAGGAGATTGGGAGTCTGAACTTGAAGCCAATGTGACAGCAGA  
TGGAGCCTTGGCCATGGAAAAGGGACTGECCTCTCTGAAGAGTGAGATGAGGGAAGTGAAGGAGAGAGCTGGAAG  
GAAGGAGCTGGAGTTTGACACGAATATGGATGCAGTACAGATGGTGATTACAGAAGCCAGAAGGTTGATACCAG  
AGCCAAGAACGCTGGGGTTACAATCCAAGACACACTCAACACATTAGACGGCCTCCTGCATCTGATGGACCAGCC  
TCTCAGTGTAGATGAAGAGGGGCTGGTCTTACTGGAGCAGAAGCTTTCCCGAGCCAAGACCCAGATCAACAGCCA  
ACTGCGGCCCATGATGTGAGAGCTGGAAGAGAGGGCACGTGAGCAGAGGGGCCACCTCCATTTGCTGGAGACAAG

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**FIGURE 521B**

CATAGATGGGATTCTGGCTGATGTGAAGAACTTGGAGAACATTAGGGACAACCTGCCCCAGGCTGCTACAATAC  
CCAGGCTCTTGAGCAACAGTGAAGCTGCCATAAATATTTCTCAACTGAGGTTCTTGGGATACAGATCTCAGGGCT  
CGGGAGCCATGTCATGTGAGTGGGTGGGATGGGGACATTTGAACATGTTTAATGGGTATGCTCAGGTCAACTGAC  
CTGACCCCATTCCTGATCCCATGGCCAGGTGGTTGTCTTATTGCACCATACTCCTTGCTTCCTGATGCTGGGCAA  
TGAGGCAGATAGCACTGGGTGTGAGAATGATCAAGGATCTGGACCCCAAAGAATAGACTGGATGGAAGACAAAC  
TGCACAGGCAGATGTTTGCCTCATAATAGTCGTAAGTGGAGTCCTGGAATTTGGACAAGTGCTGTTGGGATATAG  
TCAACTTATTCTTTGAGTAATGTGACTAAAGGAAAAAATTTGACTTTGCCCAGGCATGAAATTCTTCCTAATGT  
CAGAACAGAGTGCAACCCAGTCACACTGTGGCCAGTAAAATACTATTGCCTCATATTGTCCTCTGCAAGCTTCTT  
GCTGATCAGAGTTCCTCCTACTTACAACCCAGGGTGTGAACATGTTCTCCATTTTCAAGCTGGAAGAAGTGAGCA  
GTGTTGGAGTGAGGACCTGTAAGGCAGGCCCATTCAGAGCTATGGTGCTTGCTGGTGCCACCTTCAAGTTC  
TGGACCTGGGCATGACATCCTTTCTTTAATGATGCCATGGCAACTTAGAGATTGCATTTTATTAAAGCATTTTC  
CTACCAGCAAAGCAAATGTTGGGAAAGTATTTACTTTTTCGGTTTCAAAGTGATAGAAAAGTGTGGCTTGGGCAT  
TGAAAGAGGTAAAATTCTCTAGATTATTAGTCCTAATTCAATCCTACTTTTCGAACACCAAAAATGATGCGCAT  
CAATGTATTTTATCTTATTTTCTCAATCTCCTCTCTCTTTTCTCCACCCATAATAAGAGAATGTTCTACTCACA  
CTTCAGCTGGGTACATCCATCCCTCCATTCATCCTTCCATCCATCTTTCCATCCATTACCTCCATCCATCCTTC  
CAACATATATTTATTGAGTACCTACTGTGTGCCAGGGGCTGGTGGGACAGTGGTGACATAGTCTCTGCCCTCATA  
GAGTTGATTGTCTAGTGAGGAAGACAAGCATTTTTAAAAAATAAATTTAAACTTACAACTTTGTTTGTACAAAG  
TGGTGTATTATTGCAATAACCGCTTGGTTTGCAACCTCTTTGCTCAACAGAACATATGTTGCAAGACCCTCCCATG  
GGGGCACTTGAGTTTGGCAAGGCTGACAGAGCTCTGGGTGTGCACATTCTTTGCATTCCAGCTGTCACTCTG  
TGCTTTTCTACAACTGATTGCAACAGACTGTTGAGTTATGATAACACCAGTGGGAATTGCTGGAGGAACCAGAGG  
CACTTCCACCTTGGCTGGGAAGACTATGGTGCTGCCTTGCTTCTGTATTTCTTGGATTTTCTGAAAGTGT  
TAAATAAAGAACAATTGTTAGA



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**FIGURE 522**

CCCAACCGCAGTTGACTAGCACCTGCTACCGCGCCTTTGCTTCCTGGCGCACGCGGAGCCTCCTGGAGCCTGCCA  
CCATCCTGCCTACTACGTGCTGCCCTGCGCCCGCAGCCATGTGCCGCACCCTGGCCGCCTTCCCCACCACCTGCC  
TGGAGAGAGCCAAAGAGTTCAAGACACGTCTGGGGATCTTTCTTCACAAATCAGAGCTGGGCTGCGATACTGGGA  
GTACTGGCAAGTTCGAGTGGGGCAGTAAACACAGCAAGAGAATAGAACTTCTCAGAAGATGTGCTGGGGTGA  
GAGAGTCGTTTCGACCTGCTGCTGAGCAGTAAAAATGGAGTGGCTGCCTTCCACGCTTTCCTGAAGACAGAGTTCA  
GTGAGGAGAACCCTGGAGTTCTGGCTGGCCTGTGAGGAGTTCAAGAAGATCCGATCAGCTACCAAGCTGGCCTCCA  
GGGCACACCAGATCTTTGAGGAGTTTATTGTCAGTGGAGCCCTAAAGAGGTCAACATTGACCATGAGACCCACG  
AGCTGACGAGGATGAACCTGCAGACTGCCACAGCCACATGCTTTGATGCGGCTCAGGGGAAGACACGTACCCTGA  
TGGAGAAGGACTCCTACCCACGCTTCTGAAGTCGCTTACCGGGACCTGGCTGCCCAAGCCTCAGCCGCCT  
CTGCCACTCTGTCCAGCTGCAGCCTGGACGAGCCCTCACACACCTGAGTCTCCACGGCAGTGAGGAAGCCAGCCG  
GGAAGAGAGGTTGAGTCAACCATCCCCGAGGTGGCTGCCCTGTGTGGGAGGCAGGTTCTGCAAAGCAAGTGCAA  
GAGGACAAAAAAGAGTCAACCATCCCCGAGGTGGCTGCCCTGTGTGGGAGGCAGGTTCTGCAAAGCAAGTGCAA  
GATACTGTGGGACTCATGCTGGAGAGGAGCCGCCACTTCCAGGACCTGTGAATAAGGGCTAATGATGAGGGTTG  
GTGGGGCTCTCTGTGGGGCAAAAGGTGGTATGGGGGTTAGCACTGGCTCTCGTTCTCACCAGGAGAAGGAAGTGT  
TCTAGTGTGGTTTATGAAACATGTGGATAAAGGGAACCATGAAATGAGAGGAGGAAAGACATCCAGATCAGCTG  
TTTTGCCTGTGCTCAGTTGACTCTGATTGCATCCTGTTTTCTTAATTCACAGACTGTTCTGGGCACGGAAGGGA  
CCCTGGATGTGGAGTCTTCCCTTTGGCCCTCCTCACTGGCCTCTGGGCTAGCCAGAGTCCCTTAGCTTGTACC  
TCGTAACACTCCTGTGTGTCTGTCCAGCCTTGTCAGTCATGTCAAGGCCAGCAAGCTGATGTGACTCTTGCCCAT  
GCGAGATATTTATACCTCAAACACTGGCCTGTGAGCCCTTTCCAAGTCAGTGGAGAGCCCTGAAAGGAGGCTCAC  
TTGAATCCAGCTCAGTGCTCTGGGTGGCCCTTGTCAGGTGGCCCTGACCCTGCGTTGCAGCAGGGTCCACCTGT  
GAGCAGGCCCGCCCTGGGGCCTCTTCTGGATGTGCCCTCTCTGAGTTCTGTGCTGTCTCTTGGAGGCAGGGCCC  
AGGAGAACAAAGTGTGGAGGCTCGGGGAGTGGCTTTTCCAGCTCTCATGCCCCGAGTGTGGAACAAGGCAGAA  
AAGGATCCTAGGAAATAAGTCTCTTGGCGGTCCCTGAGAGTCTGTGTAATCCAGCCAGTGTTTTTTGTGGTAT  
GAGAACAGGCAGGCAAAAGAGATGCCCCGAGATAGAAGGGGAGCCTTGTGTTTCTTTCTGCAGACGTGAGATGAACA  
CTGGAGTGGGCAGAGGTGGCCAGGACCATGGCACCCTTAGAGTGCAGAAGCTGGGGGAGAGGCTGCTTGAAG  
GGCAGGACTGGGGATAATCAGAACCTGCCTGTACCTCAGGGCATCACTGAACAAACATTTCTGATGGCAACTC  
CTGCGGCAGAGCCAGGCTGGGGAAGTGAACATCCAGGGCAGCCCTTTGTGGCCAGGATAATCAACACTGTT  
CTCTCTGTACCATGAGCTCCTCCAGGAGATTATTTAAGTGTATTGTATCATTGGTTTTCTGTGATTGTCATAACA  
TTGTTTTTGTATTGTTGGTGTCTGTTATTTATTATTGTAATTTAGTTTGCCTCTACTGGAGAATCTCAGCA  
GGGGTTTCAGCCTGACTGTCTCCCTTTCTCTACCAGACTCTACCTCTGAATGTGCTGGGAACCTCTTGGAGCCTG  
TCAGGAACCTCCTCACTGTTTAAATATTTATTTATTGTGACAAATGGAGCTGGTTTTCTAGATATGAATGATGTTT  
GCAATCCCCATTTTCTGTTTTAGCATGTTATATTCTTATAAAATAAAAGCAAAAGTCAAATATG

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**FIGURE 523**

GGGTGCGGGGCTGCTGGCGGCTCTGCAGAGTCGAGAGTGGGAGAAGAGCGGAGCGTGTGAGCAGTACTGCGGCCT  
CCTCTCCTCTCCTAACCTCGCTCTCGCGGCTAGCTTTACCCGCCCGCTGCTCGGCGACCAGCGGGGATCCTCC  
CCAGCCGCAAGTCCACGAAGAAAGCAACGAATGAAAATTATGAAGACAACGAGAAGTCAGACTCCTCCGGGTGCG  
CGCTCCAGCTGCTTCGGCTTCGTCGCCTACTCTGTGAACTCCGGGGAGAGATCTCGAGTCAAGATTAAGACCTTA  
ACCCACCAACCTGCCTGTTCGGACACCCCCGGGCGGCCGCTGTCTGTCCCCTTCTCCATCGCCCTCTCCCAGA  
AAGCTCCGGTGTCTGGACCAGCTAGAGTCTGAGAAAGAGGAGAGGCGCGAACGCCACTCCAAAAAGAGAAGGGTT  
AAAGAGGGCAACCCTAACGATACGCTTGACTTTCTGTGGCTGGGAACACCTTCCACCATGACCACCTCAGCAAGT  
TCCCACTTAAATAAAGGCATCAAGCAGGTGTACATGTCCCTGCCTCAGGGTGAGAAAGTCCAGGCCATGTATATC  
TGGATCGATGGTACTGGAGAAGGACTGCGCTGCAAGACCCGGACCCCTGGACAGTGAGCCCAAGTGTGTGGAAGAG  
TTGCCTGAGTGGAAATTCGATGGCTCTAGTACTTTACAGTCTGAGGGTTCCAACAGTGACATGTATCTCGTGCCT  
GCTGCCATGTTTCGGGACCCCTTCCGTAAGGACCCTAACAGCTGGTGTATGTGAAGTTTCAAGTACAATCGA  
AGGCCTGCAGAGACCAATTTGAGGCACACCTGTAAACGGATAATGGACATGGTGAGCAACCAGCACCCCTGGTTT  
GGCATGGAGCAGGAGTATACCCCTCATGGGGACAGATGGGCACCCCTTTGGTTGGCCTTCCAACGGCTTCCCAGGG  
CCCCAGGGTCCATATTACTGTGGTGTGGGAGCAGACAGAGCCTATGGCAGGGACATCGTGGAGGCCATTACCGG  
GCCTGCTTGTATGCTGGAGTCAAGATTGCGGGGACTAATGCCGAGGTCTATGCTGCCAGTGGGAATTCAGATT  
GGACCTTGTGAAGGAATCAGCATGGGAGATCATCTCTGGGTGGCCCGTTTCATCTTGCATCGTGTGTGTGAAGAC  
TTTGAGTGTATAGCAACCTTTGATCCTAAGCCCATTCCTGGGAATGGAATGGTGCAGGCTGCCATACCAACTTC  
AGCACCAAGGCCATGCGGGAGGAGAATGGTCTGAAGTACATCGAGGAGGCCATGAGAAACTAAGCAAGCGGCAC  
CAGTACCACATCCGTGCCTATGATCCCAAGGGAGGCCTGGACAATGCCCGACGTCTAACTGGATTCCATGGAACC  
TCCAACATCAACGACTTTTCTGCTGGTGTAGCCAATCGTAGCGCCAGCATACGATTCCCCGGACTGTTGGCCAG  
GAGAAGAAGGGTTACTTTGAAGATCGTCGCCCCCTCTGCCAACTGCGACCCCTTTTCGGTGACAGAAGCCCTCATC  
CGCACGTGTCTTCTCAATGAAACCGCGATGAGCCCTTCCAGTACAAAATTAAGTGGACTAGACCTCCAGCTGT  
TGAGCCCTCCTAGTTCTTCATCCCACTCCAACCTTCCCCCTCTCCAGTTGTCCCGATTGTAACCTCAAAGGGT  
GGAATATCAAGGTCGTTTTTTTTCATTCCATGTGCCAGTTAACTTGTCTTTCTTTGTTTGGCTGGGATAGAGGGG  
TCAAGTTATTAATTTCTTCACACCTACCCTCCTTTTTTTCCCTATCACTGAAGCTTTTTAGTGCATTAGTGGGGA  
GGAGGGTGGGGAGACATAACCACTGCTTCCATTTAATGGGGTGACCTGTCCAATAGGCGTAGCTATCCGGACAG  
AGCAGTTTGCAGAAGGGGGTCTCTTCTTCCAGGTAGCTGAAAGGGGAAGACCTGACGTACTCTGGTTAGGTTAG  
GACTTGCCCTCGTGGTGGAACTTTTCTTAAAAAGTTATAACCAACTTTTCTATTAAAAAGTGGGAATTAGGAGAG  
AAGGTAGGGGTGGGAATCAGAGAGAATGGCTTTGGTCTCTTGTCTTGTGGGACTAGCCTGGCTTGGGACTAAATG  
CCCTGCTCTGAACACGAAGCTTAGTATAAACTGATGGATATCCCTACCTTGAAAGAAGAAAAGGTTCTTACTGCT  
TGGTCTTGATTTATCACACAAAGCAGAAATAGTATTTTTATATTTAAATGTAAAGACAAAAACTATATGTATGG  
TTTTGTGATTATGTGTGTTTTGCTAAAGGAAAAAACCATCCAGGTACAGGGGCACCAATTTGAGACAAATAGT  
CGGATTAGAAAATAAAGCATCTCATTTTGTAGTAGAGAGCAAGGGAGTGGTTCTTAGATGGTGTCTGGGATTAGG  
CCCTCAAGACCCCTTTTGGGTTTCTGCCCTGCCACCCCTCTGGAGAAGGTGGGCACTGGATTAGTTAACAGACAAC  
ACGTTACTAGCAGTCACCTGATCTCCGTGGCTTTGGTTTTAAAGACACACTTGTCCACATAGGTTTAGAGATAAG  
AGTTGGCTGGTCAACTTGAGCATGTTACTGACAGAGGGGTATTGGGGTTATTTTCTGGTAGGAATAGCATGTCA  
CTAAAGCAGGCCCTTTTGATATTAAATTTTTTAAAAAGCAAAATTATAGAAGTTTAGATTTTAATCAAATTTGTAG  
GGTTTCTAGGTAATTTTTACAGAATTGCTTGTGTTGCTTCAACTGTCTCCTACCTCTGCTCTTGGAGGAGATGGGG  
ACAGGGCTGGAGTCAAAACACTTGTAATTTTGTATCTTGATGTCTTTGTAAAGACTGCTGAAGAATTATTTTTTT  
TCTTTTATAATAAGGAATAAACCCACCTTTATTCCTTCATTTTCATCTACCATTTTCTGGTTCTGTGTGTGGCTG  
TGGCAGGCCAGCTGTGGTTTTCTTTTGCCATGACAACTTCTAATTGCCATGTACAGTATGTTCAAAGTCAAATAA  
CTCCTCATTGTAAACAACTGTGTAAGTGGCCAAAGCAGCACTTATAAATCAGCCTAACAT

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**FIGURE 524A**

GC GGGGAGGGGCGGGGCTATGGAGAGGAGGAGGAAGATGGCGGGCGGGCTGCTCTGAAGAGACCTCGGCGGGCGG  
GGAGGAGGAGAGAAGCGCAGCGCCGCGCCGCGCCGGGGGCCATGTGGGAGGAGTCGGAGTCGCTGTTGCCGCCG  
CCGCCTGTAGCTGCTGGACCCGAGTGGGAGTGAGGGGGAAACGGCAGGATGAAGTTCGCCGAGCACCTCTCCGCG  
CACATCACTCCCGAGTGGAGGAAGCAATACATCCAGTATGAGGCTTTCAAGGATATGCTGTATTACAGTCAGGAC  
CAGGCACCTTCTGTGGAAGTTACAGATGAGGACACAGTAAAGAGGTATTTTGCCAAGTTTGAAGAGAAGTTTTTC  
CAAACCTGTGAAAAAGAACCTGCCAAAATCAACACATTTTATTACAGAGAAGCTCGCAGAGGCTCAGCGCAGGTTT  
GCTACACTTCAGAATGAGCTTCAGTCATCACTGGATGCACAGAAAGAAAGCACTGGTGTTACTACGCTGCGACAA  
CGCAGAAAGCCAGTCTTCCACTTGTCCCATGAGGAACGTGTCCAACATAGAAATATTAAAGACCTTAAACTGGCC  
TTCAGTGAGTTCTACCTCAGTCTAATCCTGCTGCAGAACTATCAGAATCTGAATTTTACAGGGTTTCGAAAAATC  
CTGAAAAAGCATGACAAGATCCTGGAAACATCTCGTGAGCAGATTGGCGAGTGGCTCAGTAGAGGTGGCCCCA  
TTTTATACATGCAAGAAAATCAACCAGCTTATCTCTGAAACTGAGGCTGTAGTGACCAATGAACCTGAAGATGGT  
GACAGACAAAAGGCTATGAAGCGTTTACGTGTCCCCCTTTGGGAGCTGCTCAGCCTGCACCAGCATGGACTACT  
TTTAGAGTTGGCTATTTTGTGGAATATTCATTGTACTGAATATTACCCTTGTGCTTGCCGCTGTATTTAACTT  
GAAACAGATAGAAGTATATGGCCCTTGATAAGAATCTATCGGGGTGGCTTTCTTCTGATTGAATTCCTTTTTCTA  
CTGGGCATCAACCGTATGGTTGGAGACAGGCTGGAGTAAACCATGTACTCATCTTTGAACTTAATCCGAGAAGC  
AATTTGTCTCATCAACATCTCTTTGAGATTGCTGGATTTCCTCGGGATATTGTGGTGCCGTGAGCCTTCTGGCATGC  
TTCTTTGTCTCCAATTAGTGTATCCCCACATATGTGTATCCACTTGCCCTTTATGGATTATGGTTTTCTTCCTT  
ATCAACCCACCAAACTTTTCTACTATAAATCCCGGTTTTGGCTGCTTAACTGCTGTTTCGAGTATTTACAGCC  
CCCTTCCATAAGGTAGGCTTTGCTGATTTCTGGCTGGCGGATCAGCTGAACAGCCTGTCTAGTGATACTGATGGAC  
CTGGAATATATGATCTGCTTCTACAGTTTGGAGCTCAAATGGGATGAAAGTAAGGGCCTGTTGCCAAATAATTCA  
GAAGAATCAGGAATTTGCCACAAATATACATATGGTGTGCGGGCCATTGTTTCAGTGCATTCTGCTTGGCTTCGC  
TTCATCCAGTGCCTGCGCCGATATCGAGACACAAAAGGGCCTTTCTCTATTAGTTAATGCTGGCAAATACTCC  
ACAACCTTTCTTATGGTGACGTTTGCAGCCCTTTACAGCACTCACAAGAACGAGGTCACTCGGACACTATGGTG  
TTCTTTTACCTGTGGATTGTCTTTTATATCATCAGTTCTGCTATACCCTCATCTGGGATCTCAAGATGGACTGG  
GGTCTCTTCGATAAGAATGCTGGAGAGAACACTTTCTCCGGGAAGAGATTGTATACCCCCAAAAGCCTACTAC  
TACTGTGCCATAATAGAGGATGTGATTCTGCGCTTTGCTTGGACTATCCAAATCTCGATTACCTCTACAACTTTG  
TTGCCTCATTCTGGGGACATATTGCTACTGTCTTTGCCCACTTGAGGTTTTCCGGCGATTGTGTGGAACTTC  
TTCCGCCTGGAGAATGAACATCTGAATAACTGTGGTGAATTCGCTGTGTGCGGGACATCTCTGTGCCCCCTG  
AACGCAGATGATCAGACTCTCCTAGAACAGATGATGGACCAGGATGATGGGTACGAAACCGCCAGAAGAATCGG  
TCATGGAAGTACAACCAGAGCATATCCCTGCGCCGGCCTCGCTCGCTTCTCAATCCAAGGCTCGTGACACTAAG  
GTATTGATAGAAGACACAGATGATGAAGCTAACACTTGAATTTCTGAAGCTAGCTTAACATCTTTGGTTTTCC  
TACTCTACAATCCTTTCTCGACCAACGCAACCTCTAGTACCTTTCCAGCCGAAAACAGGAGAAAACACATAACA  
CATTTTCCGAGCTCTTCCGGATCGGATCCTATGGACTCCAAACAAGCTCACTGTGTTTTCTTTCTTTCTTCTGG  
TTTAATTTTAATTTTCTATTTTCAAAACAAATATTTACTTCATTGCCAATCAGAGGATGTTTTAAGAAACAAA  
CATAGTATCTTATGGATTGTTTACAATCACAAGGACATAGATACCTATCAGGATGAAGAACAGGCATTGCAAGGA  
CCCTCTGATGGGACGGTACTGAGATATCTCGGCTTCCGCTCAGCCCGTTTTGACTGGTTGAAACCGGACATTGG  
TTTTTAAATTTTTTGTCTAGTTATGTGGAGAATTTTTTCTTTCTTCTCATACCCAGCGCAAAGGCACTGGCCGCA  
CTTGCAGGAAAAGTGCAACTTAAAGCAGTACCTTCATTTCATGAAGCTACTTTTTAATTTGATGTAACTTTTCTTA  
TTTTGGGAAGGGTGTCTGGGTGGGTGGGAAATATGATGTATTTGTACACATAGTTTTCTCATTATTTATGAAAC  
TTAACCATACAGAATGATATAACTCCTGTGCAATGAAGGTGATAACAGTAAAGAAGGCAGGGGAAACTTACGTT  
GGATGACATTATGAGGGTCAGTCCACATACCTCTTTACAGGAGACAACCTTGACCCAGTTTGACCTTTTCTTTTC  
TTTGTTTTTATTTTAAGCCAAAGTTTCATTGCTAACTTCTTAAGTTGCTGCTGCTTTAGAGTCTGAGCATATCT  
CTCATAACAAGGAATCCCACACTTCACACCACCGGCTGAATTTTCATGGAAGAGGTTCTGATAATTTTTTTAACTT  
TTTAAGGAACAGATGTGGAATACACTGGCCCATATTTCAACCTTAACAGCTGAAGCTATGCCTTATTATGCATCC  
ACATGTATGGTCCCTGTAGCGTGACCTTTACTAGCTCTGAATCAGAAGACAGAGCTATTTAGAGGCTCTGTGTG  
CCCTCACTAGATAGTTTTTCTTCTGGGTTCAACCACTTTAGCCAGAATTTGATCAAATTTAAAGTCTGTATGGG  
GAAACTATATTTTGTAGCACATGGAACAAATTATACTTCTCATTATATGTTGATACAAAAGACCTTGGCA  
GCCATTTCTCCAGCAGTTTTTAAGGATGAACATTGGATTTTCATGCCATCCCATAGAAAACCTGTTTTAAATTT

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**FIGURE 524B**

TAGGGATCTTTACTTGGTCATACATGAAAAGTACACTGCTTAGAAATTATAGACTATTATGATCTGTCCACAGTG  
CCCATTGTCACITCTTTGTCTCATTTCTTCCCTTTGTTCCCTTAGTCATCCAAATAAGCCTGAAAACCATAAGAGA  
TATTACTTTATTGAATATGGTTGGCATTAAATTTAGCATTTCATTATCTAACAAAATTAATATAAATTCCAGGAC  
ATGGTAAAATGTGTTTTAATAACCCCCAGACCCAAATGAAAATTTCAAAGTCAATACCAGCAGATTTCATGAAAGT  
AAATTTAGTCCTATAATTTTCAGCTTAATTATAAACAAAGGAACAAATAAGTGGAGGGCAGCTATTACCATTTCG  
CTTAGTCAAAACATTTCGGTTACTGCCCTTTAATACACTCCTATCATCAGCACTTCCACCATGTATTACAAGTCTT  
GACCCATCCCTGTCGTAACCTCCAGTAAAAGTTACTGTTACTAGAAAATTTTTATCAATTAAGTACAAAATAGTTT  
CTTTTAAAGTAGTTTCTTCCATCTTTATTCTGACTAGCTTCCAAAATGTGTTCCCTTTTGAATCGAGGTTTTT  
TTGTTTTGTTTTGTTTTCTGAAAAAATCATACAACTTTTGTCCTTCTATTGCTTTTTTGTTGTTTTGTTAAGCATGT  
CCCTTGCCCCAAATGGAAGAGGAAATGTTTAATTAATGCTTTTAGTTTAAATAAATTGAATCATTATAATAAT  
CAGTGTTAACAATTTAGTGACCCTTGGTAGGTTAAAGGTTGCATTATTTATACTTGAGATTTTTTCCCCTAACT  
ATTCTGTTTTTTGTACTTTAAACTATGGGGGAAATATCACTGGTCTGTCAAGAAACAGCAGTAATTATTACTGA  
GTTAAATTGAAAAGTCCAGTGGACCAGGCATTTCTTATATAAATAAAATTGGTGGTACTAATGTG

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**FIGURE 525**

AAATAAATTATTTTTGTTAAGGCAAGCATTGGTGTGTTCTTTAACTTGCTACTTGGAGACCTAGTGTCCAGTCTGG  
ACAGAAATGCACAGAGACCAGCCTCACCTGGAATGCAGCCAGACTCGATGTCCCTCAGCACACACAGCTCCTGGCC  
ACAGACTGCCCATAGAACTGTCTGCACCCAAACCCCATGGCCTTTTCATGCACGGAGACAGGCCCTCTGGATGTGC  
AGCCTTGCCACCCCTGCCCAATCCTCCCTGAGAGCTCCTGCCTCAGTGCCCTGGGCTGGTGAGGGAGAAGCCT  
GTCTGCACCTGCCTAATTCCAGCTCCTCCAGGAAGCAAGGGCTTGTTTGTGAGAGCTGCAGGGTTGGCCACTCGG  
TGGGGAGGAGTCAGCCAGGATTAGAGAGCCTGCCCCCTAATCCGGCCTGCTGGGTTTACAAGGATCAGAGCTGCT  
GATAATGAACCTCATTAAAGGGGGAGCAGGAGCCTCAATCCGATTGGTTTTCTCTTTGACATCTTCACTCTGCTC  
AGATGGCCTGGGTGCTATGTGGAGCAGGTGGGATGCCAAGGCCACTCCTGCTATGGGGCAGCTGGGGCTGGGGAG  
GGATGGCAGTCTCCCTGCATGTTTTCCCTCGACCTCTTTAGCTGCAGCGCCTTGCTGGGCTCCTGGGTGGACTCC  
CTCTCTGTGCCCCCTGCTCCAGGCACCCATTGGCTCCATCCTCCTGGTTGTGCTCTGCACCCCTGCTCCCTTGGG  
CTGGCCCTGGCTGGGGGCTGAGAGACAGACAGGAACCCACAATCAGGAGGCAACCTGGCCTGCAAGAGGAAGA  
CAGAGGCTCCCAGGGCCGGTGCCCTGTGTGCCCACTGCACCAAGGCCGCTGAATAAGCCTGCCCTTACCCCTTA  
AGGGCTCCTTGCCCAATGCCAAGTGCTGGGGATTTCTGTGAGCAAGCCCTGTGGCTCCAGTGACGGTATTTCTAA  
AGCCAACTTAGTTACCTAGAAATTAGCGCCATGTTGGAAACACTGTGCGAGCAGCCCGGGCTGCACAGTGTGTAG  
CCCAGCTCCAGGTCCACGGAGTGGTGTGGACCTCCACCTCACAGCTGCCTCTGGCAGCCAAGCCTCTTTTCGC  
CCGGCCCCAGCCCTCTGGTTGATAAACGGGTGGGCCTCCTCAGCAGCGTGGCTGCCTTTCACCTTGATTTCCCC  
AGGGCTCTCGGCAACATCGATAAACAGCCTCGCCACCAGCTGGGCCCTCCCCACCCAGTCTGCCAGGCTGGG  
AGCTGGAGCTTGCTGAGTCTTGAATGCCCTTCTAGATGGCTTCTCTAGAGGCTCTCCTGGCAAGAGAGGGTCCCA  
AGGGGAGCCCTGCAAAGCAAAGGCTCCTTGCTGGGGCGGATAGAGAATCTCGCCTCTGTCTGGTGTGTTACCT  
ACTGGGGGCACAGGAACAATTTCTCAAGGAGACAGTGGCATGGAGCTTTGAAAGACGAGTAGGTGTAGCAAGG  
AAATAAGGAGGAACGGGGGTACGGGCAGAGGAGAAAGCACATGCCAAGTCAGCAAAGAAAAGTAGAATTCGAAA  
ACTTTTTAAAAATATTACTAAGGATTTTCACAATGCTGCACTGGGCTAGAACTGAAGCTAAACAGATACGTGG  
TCCCTGCTGCTATGGGGCTTCCGTTCTAGAGGCAAGGACAGGTTGTGATGAGGGTTCTGAAGGATAGAGACCAAG  
CAGGGAGGGTGTGAGGAGGCTTCTGCGAGACCTGAAGGATGGGAAGCCAGGAAGTGGGAGGGGTGGGGTCCAG  
GCTGGAGGGGCCCAATGTAGGTGTAGAGGACTACAGCCCTGAGGGGCTGCTCCATGCGGCATTCTTGAGAGTCC  
AAGAGGGGCAGCGCCACCTTGGGCCAGGCTCCTCTCCAGCAGCCTTGGTATGGGGTGGGGGTGGGAAGACCCCTG  
ATGCAGCCTGTCTCTGGGTGTGGGGGTGGAGGAGAGGGCTCCAGGGGACCCAGCCAGCCTTGACCCTGGAGGAA  
AGTCAGGTGGGCTCAGAGAGAGCCCTCAAATCTGGGCCCTGGGTCAGGGTGGGGTCAAGTCCAGCCTGAAGAGA  
ATGGACTCTGGAATCTGACGTCTGGGTTTGAATCCAGCTTCCAACACTCACTGGCTGTGTGACTTTGGGCAAGAT  
AATTATCCCTTGTCCCCATGTGTGATTGGAGATAAACTACCCACCTACCAGATTGTTGTACCATGCTGGGCAA  
ACACTAAGTGCTTAATAATGGTAGCCCACTGCTC

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**FIGURE 526**

MHRDQPHLECSQTRCPSAHTAPGHRLPIELSAPKPHGLFMHGDRLDVQPCHPLPQSSLRAPASVPWAGEGEACL  
HLPNSSSSRKQGLVCQSCRVGHSVGRSQPGLESLEPLIRPAGFYKDQSC

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**FIGURE 527**

AGCCGGATGGTCCCGCAGCTCGGGGCCGGCCATGCTTCGCGGTCCGTGGCGCCAGCTTTGGCTCTTTCTCCTGCT  
GCTGCTCCCGGGCGCGCCTGAGCCCCGCGGCGCCTCCAGGCCGTGGGAGGGAACCGACGAGCCGGGCTCGGCCTG  
GGCCTGGCCGGGCTTCCAGCGCCTGCAGGAGCAGCTCAGGGCGGCGGTGCCCTCTCCAAGCGGTACTGGACGCT  
CTTCAGCTGCCAGGTGTGGCCCGACGACTGTGACGAGGACGAGGAGGCAGCCACGGGGCCCCCTGGGCTGGCGCCT  
TCCTCTGTTGGGCCAGCGGTACCTGGACCTCCTGACCACGTGGTACTGCAGCTTCAAAGACTGCTGCCCTAGAGG  
GGATTGCAGAATCTCCAACAACCTTTACAGGCTTAGAGTGGGACCTGAATGTGCGGCTGCATGGCCAGCATTGGT  
CCAGCAGCTGGTCCCTAAGAACAGTGAGGGGCTACTTAGAGACGCCCCAGCCAGAAAAGGCCCTTGCTCTGTCGTT  
CCACGGCTGGTCTGGCACAGGCAAGAACCTTCGTGGCACGGATGCTGGTGGAGAACCCTGTATCGGGACGGGCTGAT  
GAGTGAAGTGTGTCAGGATGTTTCATCGCCACGTTCCACTTTCTCACCACCAATATGTGGACCTGTACAAGGAGCA  
GCTGATGAGCCAGATCCGGGAGACGCAGCAGCTCTGCCACCAGACCCTGTTTCATCTTCGATGAAGCGGAGAAGCT  
GCACCCAGGGCTGCTGGAGGTCTTTGGGCCACACTTAGAACGCCGGGCCCCCTGAGGGCCACAGGGCTGAGTCTCC  
ATGGACTATCTTTCTGTTTCTCAGTAATCTCAGGGGCGATATAATCAATGAGGTGGTCTAAAGTTGCTCAAGGC  
TGGATGGTCCCGGAAGAAATTACGATGGAACACCTGGAGCCCCACCTCCAGGCGGAGATTGTGGAGACCATAGA  
CAATGGCTTTGGCCACAGCCGTCTTGTGAAGGAAAACCTGATTGACTACTTCATCCCCTTCCTGCCTTTGGAGTA  
CCGTCACGTGAGGCTGTGTGCACGGGATGCCTTCCTGAGCCAGGAGCTCCTGTATAAAGAAGAGACACTGGATGA  
AATAGCCCAGATGATGGTGTATGTCCCAAGGAGGAACAACCTCTTTCTTCCAGGGCTGCAAGTCTATTTCCCA  
GAGGATTAACCTACTTCCGTGTCATGAAGGCTAGAGGAAGACTTCCTGGAAGTGCCTTTCTTCCACTAACAGGACCC  
TGGGACCTGTAGGAGCACCCCGTTTGGGACTGTGAGGTGTTTGGGGTGTGGACTGGCATCCAGCAGCCACTAAC  
AAACACACAACCTGGTGTGTAAAGGCAGGCCTTACATTAGAAGCCAAGCCAATCCTTTTTCTTTTTTTTGGAGGT  
CCCACCGAGATAGATAGGAACCTGGATTGCTGAATTCAAAAACAGAGCCCATCTTAAGATCACTTGGTGCCTTA  
AAGACACGCATTCCAAAGTGGAATGTGGTTGAAGAAAGTGGGCCAGGTGGTTGAAGAAAGCCATGTGGGAGCTCA  
GCAAATCCCAAGGGCTTATTATGACACTCCAGATGGTCTCCTTAGCATCTCAGCTCTTCTGCAAGGAAGAGCTG  
GGTGTAGGCCTCAGAGGCTGTAGGGTCCTTGGGTTACAGAGCCGGGAGAACGAAGTTCTGTGACCCAGGGGTG  
GAGAATACACTCTAGGTTTGGGGCTGGTGGGCTTTCAAATTGGTACTTCCAGAGGAAAGCCAAGCTGCTTCTGT  
TGTGAGCGAATCAGCCAAGAGCCTGAGGCTGAAGGGAAGTACACAGAGGAAGATATTTTACAAACCAGGTCAG  
TGTAGGCCAAGACTTATGGTCTACAGATTTTGGCGGGGAGGGGGACCTTTTCAAAGACAATAGGGGGTCTTGA  
CATGTTTGTGTATGTAAAGATGATAAGATTAAATTTTGTATTTTCTAAAAA

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**FIGURE 528**

MLRGPWRQLWFLLLLLLPGAPEPRGASRPWEGTDEPGSAWAWPGFQRLQEQRLRAAGALSKRYWTLFSCQVWPDDC  
DEDEEAATGPLGWRLPLLQRYLDLLTTWYCSFKDCCPRGDCRISNNFTGLEWDLNVRHGHVQQLVLRITVRG  
YLETPOPEKALALSFGWSGTGKNFVARMLVENLYRDGLMSDCVRMF IATFHFPHPKYVDLYKEQLMSQIRETQQ  
LCHQTLFIFDEAEKLHPGLLEVLGPHLERRAPEGHRAESPWTIFLFLSNLRGDIINEVVLLKAGWSREEITME  
HLEPHLQAEIVETIDNGFGHSRLVKENLIDYFIFPLPLEYRHVRLCARDAFLSQELLYKEETLDEIAQMMVYVPK  
EEQLFSSQGCKSISQRINYFLS



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**FIGURE 529**

ATTTCTCCATGTGGCAGACAGAGCAAAGCCACAACGCTTTCTCTGCTGGATTAAAGACGGCCACAGACCAGAAC  
TTCCACTATACTACTTAAAATTACATAGGTGGCTTGTCAAATTCAATTGATTAGTATTGTAAAAGGAAAAAGAAG  
TTCTTCTTACAGCTTGGATTCAACGGTCCAAAACAAAAATGCAGCTGCCATTAAAGTCACAGATGAACAACTT  
CTACACTGATTTTTAAAATCAAGAATAAGGGCAGCAAGTTTCTGGATTCACTGAATCAACAGACACAAAAAGCTG  
GCAATATAGCAACTATGAAGAGAAAAGCTACTAATAAAATTAACCCAACGCATAGAAGACTTTTTTTCTCTTCT  
AAAAACAACCTAAGTAAAGACTTAAATTTAAACACATCATTTTACAACCTCATTTCAAAATGAAGACTTTTACCTG  
GACCCTAGGTGTGCTATTCTTCTACTAGTGGACACTGGACATTGCAGAGGTGGACAATTCAAAATTAATAAAT  
AAACCAGAGAAGATACCCCTCGTGCCACAGATGGTAAAGAGGAAGCAAAGAAATGTGCATACACATTCTGGTACC  
TGAACAAAGAATAACAGGGCCAATCTGTGTCAACACCAAGGGGCAAGATGCAAGTACCATTAAAGACATGATCAC  
CAGGATGGACCTTGAAAACCTGAAGGATGTGCTCTCCAGGCAGAAGCGGGAGATAGATGTTCTGCAACTGGTGGT  
GGATGTAGATGGAAACATTGTGAATGAGGTAAAGCTGCTGAGAAAGGAAAGCCGTAACATGAACCTCTCGTGTAC  
TCAACTCTATATGCAATTATTACATGAGATTATCCGTAAGAGGGATAATTCACTTGAACCTTCCCAACTGGAAAA  
CAAAATCCTCAATGTCAACACAGAAATGTTGAAGATGGCAACAAGATACAGGGAACCTAGAGGTGAAATACGCTTC  
CTTGACTGATCTTGTCAATAACCAATCTGTGATGATCACTTTGTTGGAAGAACAGTGCTTGAGGATATTTCCCG  
ACAAGACACCCATGTGTCTCCCCACTTGTCCAGGTGGTGCCACAACATATTCTAACAGCCAACAGTATACTCC  
TGGTCTGCTGGGAGGTAACGAGATTCAGAGGGATCCAGGTTATCCAGAGATTTAATGCCACCACCTGATCTGGC  
AACTTCTCCACCAAAAGCCCTTTCAAGATACCACCGGTAACCTTTCATCAATGAAGGACCATTCAAAGACTGTCA  
GCAAGCAAAAGAAGCTGGGCATTTCGCTCAGTGGGATTATATGATTAAACCTGAAAACAGCAATGGACCAATGCA  
GTTATGGTGTGAAAACAGTTTGGACCCTGGGGGTTGGACTGTTATTAGAAAAGAACAGACGGCTCTGTCAACTT  
CTTCAGAAATTGGGAAAATTATAAGAAAGGGTTTGGAAACATTGACGGAGAATACTGGCTTGGACTGGAAAAAT  
CTATATGCTTAGCAATCAAGATAATTACAAGTTATTGATTGAATTAGAAGACTGGAGTGATAAAAAAGTCTATGC  
AGAATACAGCAGCTTTCGTCTGGAACCTGAAAGTGAATTCTATAGACTGCGCCTGGGAACCTTACCAGGGAAATGC  
AGGGGATTCTATGATGTGGCATAATGGTAAACAATTCACCACACTGGACAGAGATAAAGATATGTATGCAGGAAA  
CTGCGCCCACTTTCATAAAGGAGGCTGGTGATCAATGCCTGTGCACATTCTAACCTAAATGGAGTATGGTACAG  
AGGAGGCCATTACAGAAGCAAGCACCAAGATGGAATTTTCTGGGCCGAATACAGAGGCGGGTCATACTCCTTAAG  
AGCAGTTCAGATGATGATCAAGCCTATTGACTGAAGAGAGACACTCGCCAATTTAAATGACACAGAACCTTTGTAC  
TTTTAGCTCTTAAAAATGTAAATGTTACATGTATATTACTTGGCACAAATTTATTTCTACACATAAAGTTTTTAA  
AATGAATTTTACCGTAACTATAAAAGGGAACCTATAAATGT

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**FIGURE 530**

MKTFTWTLGVLFLLVDTGHCRRGGQFKIKKINQRRYPRATDGKEEAKKAYTFLVPEQRITGPICVNTKGQDAST  
IKDMITRMDLENLKDVLRSQKREIDVLQLVVDVDGNIVNEVKLLRKESRNMNSRVTQLYMQLLHEIIRKRDNSLE  
LSQLENKILNVTTEMLKMATRYRELEVKYASLTDLVNNQSVMITLLEEQLRIFSRQDTHVSPPLVQVVPQHIPP  
SQQYTPGLLGGNEIQRDPGYPRDLMPPDLATSPTKSPFKIPPVTFINEGPFKDCQQAKEAGHSVSGIYMIKPEN  
SNGPMQLWCENSLDPGGWTVIQKRTDGSVNFFRNWENYKKGFGNIDGEYWLGLENIYMLSNQDNYKLLIELEDWS  
DKKVYAEYSSFRLEPESEFYRLRLGTYQGNAGDSMMWHNGKQFTTLDRDKDMYAGNCAHFHKGGWWYNACAHSNL  
NGVWYRGGHYRSKHQDGIFWAEYRGGSYSRAVQMMIKPID

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**FIGURE 531**

ATGGGGCTGCTCACTGGCACTGGAGGCCGAAAGAAGGTGAGGGCAAGTGAGATGCAGGGACCTCTTCTCACAGCT  
GTGCTGACAAGCACAAAAGGAGCCCCCAGTCCACACCAGGAAAGGGGGGATGGTGCACAAGATCCAGAGGCG  
TCAACAGACACGTCCAGCGAACAAGCACAGGGTGGGCCGTCCGGGAGCCTTGCGCCAGGAGGAAAGCCGCAC  
CGAGGGCAGCAGGGAGGCTCTGATGGCTGCCAAGAGGGTCTGATCCAGAAATATGGCCTCAATATGTGCCCCCAG  
TGTTTCCGTCAGTACGCGAAGGATATCGGTTTCATTAAATTGGACTAA

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**FIGURE 532**

TAGGTTTCATTGGAAGCTTGAGTTTTATCATTGGCAACAAATGCCATCAGTTTTTTCCAAGCTGACTTGTTCTT  
TTTTGAGCAAATCTCTGCCAAAATTACCCCTAAAATATGAATAATCAATTTGTCAGGTTTTTTCAAACATAAAAT  
GTTCTGTGAAAACAAGCAGCTAGTTCAGCTTGATCTCAAACAATTGTAACACTTTTTCTAGGGAAAAAAAAT  
CTAGACATCCATACTTTATGGCAGATGTGCTTCATGCATACTTCCCATTTTGTACACAGAAATCAAAATAACG  
TGTACTCAAGGTCAAGATTTACTAACAATAAAATTCAAAACCTGCTAAACAACAGAATGCTGAATAAGGTGATC  
CAATTTTAAATATTTTATTTGAGACAACATCTCACCCTGTCACCCAGGCTGGAATCCAGTGGTGTGACACAGCTC  
ACTGCATCCTCAACCTCCTGGGCTCAAGCGATCGTCCCACCTCAGTCTCATGAGTGGTTGGGACTACAGGCATGC  
ACCATCATGCCCCGGCTCACTTTTTTTTTTCTTTTTTTTTTTTAAATTGTAGACACAGGGTCTCACTATGTTGCCAGG  
CCGGTCTTGAACCTCCTGGACTCAAGCAATCCCCCACCTTGGTTTCCCAAAGTGTGGGATTACAGGCATGAGCT  
ACTACATACAACTGAAATCTTTTAAATATGCTTGTCAAAAAGTTTCTGATTACGCAAATGGCACTTATATATAAA  
AGAGAGAACAAGAAGCTGGATGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTAGGTGGGCAGATCA  
CGAGGTCAAGGATTCGAGACCAGCCTGGCCAACGTGGTGAACCCCCCTCTCTACTAAAAATACAAAAATAGCCAG  
GCATGGTGGCCACGCCTGTAATCCCAGCTACTTGGAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGAGGTGG  
AGGTTGCAGTGAGCCAAGATTGCGCCGCTACATTCCAGCCTGGGCAACACGAGCGAAACTCCGTCTCAAAAAAAA  
AAAAAAAAGAATAGAACTTGGCTGGATGCAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGGCAGGGCAG  
TTGGATCACTTGAAGCCAGGAGTTCAAGACTAGCCTGGCTGACATGGTGAAACTCCATCTCTACTAAAAATACAG  
AAAAAAAATTAGCTGGGAGTGGTGCCACACCTGTCATCCCAGCTACTCAGGTAGTTGAGGCACAACAATCAC  
TTGAGCCTAGGAGGCCAGGCTGGAGTGAGGTGGCACGATCTTGGTTCACTGCAACCTCCACCTCCAGGGTTGAG  
AGTAGCTGGGACTACAGGCCACACTACCACACCCGGCTAAATTTTCGCTTTTTTTCAGTAGAGACCGGGTTTTGC  
CATGTTGGCCAGGCTGGTCTCGAAGCCTGAGCCATAACCTGGCGAAAAGATACTTTGAAATGTAACATCGTTTTT  
CACTTCAAAATCAAGGTATTTTACCAACTTGTCTTTGGTACCTCCCCAAAACCTGATCTACTACATTTGCAGTTT  
CATTCATTTTTCCAACATTAAGGAATAAACTTGAAGCGCTTACATTCTTGTGGGGGAAGTAAGAACAAAACACAT  
AATAGGTCATGGTGGTCACATGAAAAGTAAAGGGTAACCGATTGGGGTAGGTGGTGGTAGTTTTGTGTGTGTGTT  
TTTTTTTGAGACCAAGTCTCGCCGTTGCCAGGCTGGAGTGCGGTGGCATGATCTCAGTTCACTGCAACCTCCAC  
TTCCTAGGTTCAAGCAATTCTCCTGCCTCAGCTACTCAAGAGGCTGAGGCAGGAGAATTCCTTGAACCTGGGAGG  
CAGAGGTTGCAGTGAAGTATAGTGCCGCTGCATCTCATTCTGGGCAAGAGCTAGACTCTTGTCTAAAAAAA  
AAAAAATACTTGAAGTCTATACCTTTGCTTCTTTAAAACCTTGCTCCACACAGTGTAGTCAAGCCGACTCTCCA  
TACCTGTAGAAATTTAATCTCCTTTACCAATAGGTAGTAATAGGTGGATTTCTAAAAGATTTCCTCACTACTGTT  
TCAGTTTAAAGATTAACTCTCCATTTTCTTCTCAGAGAGATTCCCATCTGCTTTAATTTTAAATCATCACTAACA  
GTAGCTCAATCAATTAACGTTAACATCAATAAAACATGTACCTTTAAAAGGTATGACAGGAAGTGTCTTCATGTC  
CTTACCCAAGCAAGTCATCCATGGATAAAAACGTTACCAGGAGCTGGAATACAAATGAGGACTTCCATTAAAATG  
CTAAACATCATTAACCTCTTTTCAAAGTTGTCTGTC

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**FIGURE 533**

MCFMHTSHFVTQNIKITCTQGQDLLTTKIPKLLNNRMLNKVIQFLIFYLRQHLLTSPRLESSGVTQLTASSTSWA  
QAIVPPQSHEWLGLQACTIMPGSLFFSFFF

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**FIGURE 534**

ATCTGTAGATGGGAGTGATTAGCTGTTTTAAAGTTAAATGTGACTGAGAAGGAAATTGAGTAGGGCAAATTTTA  
AATGGGTATTATTTTTCATCTTCAAACAGGCAGACCTGTTATCCTAAACTAGGTGAGTCAGCTTTTGGTACATGT  
GATGATTTTCAGTGTAACCAATGATGTAATGATTCTGCCAAATGAAATATAATGATATCACTGTAAAACCGTTCC  
ATTTTGATTCTGAGGTTACTCTACTAACAAGCATCACACATTTGTATTTTGCCCTGATTAATATGTTGGCTTCGC  
TTTCAGGGTTTTTAATGACCACAACAAGCAAGCATGCAGCTTACTGCTTGAAAGGGTCTTGCCCTACCCAAGCTA  
GAGTGCAGTGGCCTTTGAAGCTTACTACAGCCTCAAACCTCTGGGCTCAAGTGATCCTCAGCCTCCCAGTGGTCT  
TTGTAGACTGCCTGATGGAGTCTCATGGCACAAGAAGATTAAACAGTGTCTCCAATTTTAATAAATTTTGCAA  
TCC

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**FIGURE 535**

AGTTAAACAGCTGAGCTTCTGAATGCCTGCAAGAAGCTGCCCTTTGAAATTAAGAACTTCGTGAAGAAAACAGA  
GGCTCTTCGGTTGCAGTATCGCTACTTAGACTTGCGTAGTTTCCAAATGCAGTATAACCTGCGACTGAGGTCCCA  
GATGGTCATGAAAATGCGGGAATATCTCTGTAATCTGCATGGGTTTGTGGATATAGAAACCCCCACATTGTTTAA  
GAGGACCCAGGGGGTGCCAAAGAGTTTTTAGTACCATCCAGGGAACCTGGAAAGTTTTGTTCTCTCCCTCAGAG  
TCCTCAACAGTTTAAAGCAACTTCTGATGGTTGGCGGTTTAGACAGATATTTTCAGGTTGCCGATGTTATCGAGA  
TGAAGGTTCAAGACCAGACAGACAGCCTGAGTTTACTCAGATTGACATAGAGATGTCATTTGTAGACCAGACTGG  
GATCCAGAGTTTAAATTGAGGGTTTGCTCCAGTATTCCTGGCCCAATGACAAAGATCCTGTGGTTGTTCTTTTCC  
TACTATGACTTTTGCTGAGGTGCTGGCCACCTATGGAACTGATAAACCTGACACTCGCTTTGGAATGAAGATTAT  
AGATATCAGTGATGTGTTTAGAAACACAGAGATTGGATTCTTCAAGATGCACTTAGTAAGCCCCATGGAAGTGT  
GAAAGCCATATGTATCCCTGAAGGAGCAAAATACTTAAAAAGGAAAGACATTGAATCCATTAGAACTTTGCAGC  
TGACCATTTTAAATCAGGAAATCTTACCTGTATTCTTAACGCCAATAGAACTGGAATTCTCCAGTTGCTAATTT  
CATAATGGAGTCACAAAGACTGGAATTAATCAGACTAATGGAGACCCAAGAGGAAGATGTGGTCTTACTAAGTGC  
TGGAGAGCACAAATAAGCATGCTCTTTGTTAGGAAAATTACGACTGGAATGTGCTGACCTTCTAGAAACAAGAGG  
AGTGGTGCTCCGTGACCCCACTCTGTCTCTTTCTTTGGGTGGTAGATTTCCCACTCTTCTGCCCCAAGGAGGA  
AAGTCCCAGAGAGCTGGAATCGGCCCACCACTTACTGCTCCCCACCCAGTGACATACATCTCCTGTACAC  
TGAGCCCAAAAGGCCCGTAGCCAACACTATGACTTGGTTTTAAATGGCAATGAAATAGGAGGTGTTCAATTCTG  
AATTCACAATGCAGAGCTGCAGCGTTATATCCTGGCAACCTTACTAAAGGAGGATGTGAAAATGCTCTCCCATCT  
GCTCCAGGCTTTAGATTATGGGGCACCCCTCATGGAGGAATTGCCCTTAGGGTTAGACAGACTGATATGCCTTGT  
CACTGGATCTCCAAGCATCAGAGATGTCATAGCCTTCCCAAAGTCTTCCGGGGACATGACCTCATGAGCAATAC  
CCCAGATTCTGTCCCTCCTGAGGAACTGAAGCCCTATCATATCCGAGTCTCCAAGCCAAACAGACTCCAAAGCAGA  
AAGAGCTCATTTGAATCATGCATACCATGCAGAAAGTTGAGCTTTTAGGTTTTGTCCTCTTTGCTTCCCCAAGGCT  
AAAGTCAGATCTAGAGTTCTGCCACAGGTCTAACAATCAAGTCTTTAGATGGAAGGAATCCAGGCAACATTCTTC  
ACCACAACGAAGAAACAGATAAAAGATACCCAATTTTGACTTGATTTCATGCATCATTGGAATTTTTTTGGTTA  
GGACTTTTTTTGAAGTTCCTTTTTTACTTAGGTGTGAAAGATGGTTCTTTGTTGAAATAATATAGTGGTTTAGTGT  
TTTCAAATCATGTTTCTCATACCCAGATAGTAGATTATTCACCTAGGACAGAGGTAATCAAATTATGTGTGAAAT  
GTAGGAAAATGCTTGCCCTGTAACTAGTGAGTTGATGGAGCATTGCTTCATCATCCTCATCAAGAGAATCAT  
ATAAATTAAGCTTTATAATGACATTTCAACCATCAACATAATATAGTGAGGAGTAGCATATATTTTTTAATAAT  
GCAGAAAACATCACTGAAATGAGAGTCACAAATTTTTCTCAGTGTTTCAGCCTGAGTAAGTTACATAAACCTCG  
CTTAGCCTCCCTTCTGCTAATGTGTAAATACATACTTGCCCTGGCTACCTCACCGGGCTGTTATTGCTGGAAT  
CAGAGGAGATAACATATATGGAAGATAAAGTGAATAAAAGTACTTTGAAAACT

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**FIGURE 536**

MQYNLRRLRSQMVMKMREYLCNLHGFDIETPTLFKRTPGGAKEFLVPSREPGKFCSLPQSPQQFKQLLMVGGLDR  
YFQVARCVRDEGSRPDRQPEFTQIDIEMSFVDQTGIQSLIEGLLQYSWPNDKDPVVVPFPTMTFAEVLATYGTDK  
PDTRFGMKIIDISDVFRNTEIGFLQDALSKEPHGTVKAICIEGAKYLKRKDIESIRNFAADHFNQEILPVFLNAN  
RNWNSPVANFIMESQRLELIRLMETQEEDVLLTAGHKNACSLGKLRLECADLLETGRGVVLRDPTLFSFLWVV  
DFPLFLPKESPRELESAAHHPFTAPHPSDIHLLYTEPKKARSQHYDLVLNGNEIGGGSIRIHNAELQRYILATLL  
KEDVKMLSHLLQALDYGAPPHGGIALGLDRLICLVGTGSPSIRDVIAFPKSFRGHDLMSTPDSPPEELKPYHIR  
VSKPTDSKAERAH



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**FIGURE 537**

GCCTGTCTGCATTCTACTATATAAAGCAGCAGAGACGTTGACTAGCGCATATTTGCTAAGAGCACCATGCGCGCA  
GCAGCCATCTCCACTCCAAAGTTAGACAAAATGCCAGGAATGTTCTTCTCTGCTAACCCTAAAGGAATTGAAAGGA  
ACCACTCATTCACTTCTAGACGACAAAATGCAAAAAGGAGGCCAAAGACTTTTGGAATGGATATGAAAGCATAC  
CTGAGATCTATGATCCCACATCTGGAATCTGGAATGAAATCTTCCAAGTCCAAGGATGTACTTTCTGCTGCTGAA  
GTAATGCAATGGTCTCAATCTCTGGAAAACTTCTTGCCAACCAAACTGGTCAAAATGTCTTTGGAAGTTTCCTA  
AAGTCTGAATTCAGTGAGGAGAATATTGAGTTCTGGCTGGCTTGTGAAGACTATAAGAAAACAGAGTCTGATCTT  
TTGCCCTGTAAAGCAGAAGAGATATATAAAGCATTGTGCAATTCAGATGCTGCTAAACAAATCAATATTGACTTC  
CGCACTCGAGAATCTACAGCCAAGAAGATTAAAGCACCAACCCACGTTTGTGATGAAGCACAAAAGTCATA  
TATACTCTTATGGAAAAGGACTCTTATCCCAGGTTCTCTAAATCAGATATTTACTTAAATCTTCTAAATGACCTG  
CAGGCTAATAGCCTAAAGTGACTGGTCCCTGGCTGAAGGGAATTAACAGATAGTATCAAGCGCAGAAGGAATGTG  
CCAGTATGGCTCCCTGGGTGAACAGCTTGGCCTTTTTTGGGTGCTTGACAGGCCAAGAAGAACAATGACTCAG  
AATGGATTAAACATGAAAGTTATCCAGGCGCAGAGTTGAAGAAGCATAAGCAAGACAAAACAGAGAGACCGCAGA  
AGGAGGAAGATACTGTGGTACTGTCATAAAAAACAGTGGAGCTCTGTATTAGAAAGCCCTCAGAACTGGGAAGG  
CCAGGTAACCTCTAGTTACACAGAACTGTGACTAAAGTCTATGAACTGATTACAACAGACTGTAAGAATCAAAG  
TCAACTGACATCTATGCTACATATTATTATATAGTTTGTACTGAGCTATTGAAGTCCCATTAACCTAAAGTATAT  
GTTTTCAAATTGCCATTGCTACTATTGCTTGTGCGGTGTTATTTTATTTTATTGTTTTGACTTTGGAAGAGATGA  
ACTGTGTATTTAACTTAAGCTATTGCTCTTAAACCAGGGAGTCAGAATATATTTGTAAGTTAAATCATTGGTGC  
TAATAATAAATGTGGATTTTGTATTAAATATATAGAAGCAATTTCTGTTTACATGTCCTTGCTACTTTTAAAAA  
CTTGCATTTATTCTCAGATTTTAAAAATAAATAAATAATTCATTT

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**FIGURE 538**

CTTTTCGATCCGCCATCTGCAGTGGAGCCGCCACCAAAATGCAGATTTTCGTGAAAACCCTTATGGGGAAGACCA  
TCACCCTCGAGGTTGAACTCTCGGATACAATAGATAATGTAAAGGCCAAGATCCAGGATAAGGAAGGAATTCCTC  
CTGATCAGCAGAGACTGATCTTTGCTGGCAAGCAGTTGGAAGATGGACGTACTTTGTCTGACTACAATATTCAA  
AGGAGTCTACTCTTCATCTTGTGTTGAGACTTCGTGGTGGTGCTAAGAAAAGGAAGAAGAAGTCTTACACCACTC  
CCAGGAAGAATAAGCACAAGAGAAAGAAGGTTAAGCTGGCTCTCCTGAAATATTATAAGGTGGATGAGAATGGCT  
TTATGGCAAGCCACTTTGACAGACATTATTGTGGCAAATGTTGTCTGACTTACTGTTTCAACAAACCAGAAGACA  
AGTAACTGTATGACTTAATAA

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**FIGURE 539**

MQIFVKTLMGKTIITLEVELSDTIDNVKAKIQDKEGIPPDQORLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLRG  
GAKKRKKKSYYTTPRKNKHKRKKVLLALLKYYKVDENGFMASHFDRHYCGKCCLTYCFNKPEDK

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**FIGURE 540**

AAAACAGCCGGGGCTCCAGCGGGAGAACCATAATGCAAAGTGCTATGTTCTTGGCTGTTCAACACGACTGCAGAC  
CCATGGACAAGAGCGCAGGCAGTGGCCACAAGAGCGAGGAGAAGCGAGAAAAGATGAAACGGACCCTTTTAAAAG  
ATTGGAAGACCCGTTTGTAGCTACTTCTTACAAAATTCCTCTACTCCTGGGAAGCCCCAAAACCGGCAAAAAAAGCA  
AACAGCAAGCTTTTCATCAAGCCTTCTCCTGAGGAAGCACAGCTGTGGTCAGAAGCATTGACGAGCTGCTAGCCA  
GCAAATATGGTCTTGTGTCATTTCAGGGCTTTTTTAAAGTCGGAATTCTGTGAAGAAAATATTGAATTCTGGCTGG  
CCTGTGAAGACTTCAAAAAAACCAAATCACCCCAAAAGCTGTCCTCAAAGCAAGGAAAATATATACTGACTTCA  
TAGAAAAGGAAGCTCCAAAAGAGATAAACATAGATTTTCAAACCAAACTCTGATTGCCCAGAATATACAAGAAG  
CTACAAGTGGCTGCTTTTACAACGCCCAGAAAAGGGTATACAGCTTGATGGAGAACAACCTTTATCCTCGTTTCT  
TGGAGTCAGAATTCTACCAGGACTTGTGTAAAAAGCCACAAATCACCACAGAGCCTCATGCTACATGAAATGTAA  
AAGGGAGCCCAGAAATGGAGGACATTTTCTTTTCTGAGGGGAAGGACTGTGACCTGCCATAAAGACTGAC  
CTTGAATTCAGCCTGGGTGTTTTCAGGAAACATCACTCAGAACTATTGATTCAAAGTTGGGTAGTGAATCAGGAAGC  
CAGTAACTGACTAGGAGAAGCTGGTATCAGAACAGCTTCCCTCACTGTGTACAGAACGCAAGAAGGGAATAGGTG  
GTCTGAACGTGGTGTCTCACTCTGAAAAGCAGGAATGTAAGATGATGAAAGAGACAATGTAATACTGTTGGTCCA  
AAAGCATTAAAAATCAATAGATCTGGGATTATGTGGCCTTAGGTAGCTGGTTGTACATCTTTCCCTAAATCGATC  
CATGTTACCACATAGTAGTTTTAGTTTAGGATTTCAGTAACAGTGAAGTGTTTACTATGTGCAAGGGTATTGAAGT  
TCTTATGACCACAGATCATCAGTACTGTTGTCTCATGTAATGCTAAACTGAAATGGTCCGTGTTTGCAATTGTTA  
AAAATGATGTGTGAAATAGAATGAGTGCTATGGTGTGAAAACAGTGCAGTGCCGTATGAGTGCCAAAAATCTGT  
CTTGAAGGCAGCTACACTTTGAAGTGGTCTTTGAATACTTTTAAATAAATTTATTTTGATAAATAATATTG

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**FIGURE 541**

MQSAMFLAVQHDCRPMDSAGSGHKSEEKREKMKRTLLKDWKTRLSYFLQNSSTPGKPKTGKKSQQAFIKPSPE  
EAQLWSEAFDELLASKYGLAAFRFLKSEFCEENIEFWLACEDFKKTKSPQKLSSKARKIYTDFIEKEAPKEINI  
DFQTKTLIAQNIQEATSGCFTTAQKRVSMLMENNSYPRFLESEFYQDLCKKPQITTEPHAT

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**FIGURE 542**

TGAAGATGAAAAAGAAGATCATAAAATGTGCGCCAACAACGGCAGGCGGCATCTAAAGCAGCTTCTAAACAGAG  
AGAGATGCTCATGGAAGATGTGGGCAGTGAGGAAGAACAAGAAGAGGAGGATGAGGCACCATTCCAGGAGAAAGA  
TTCCGGCAGCGATGAAGATTTCTAATGGAAGATGATGACGATAGTGAATGAGCAGTTTCGAAAAAGAAAAACAA  
AAAGATGGTTAAGAAGTCCAAACCTGAAAGAAAAGAAAAGAAAATGCCCAAACCCAGACTAAAGGCTACAGTGAC  
GCCAAGTCCAGTGAAAGGCCAAAGGGAAAGTGGGTGCGCCACAGCTTCAAAGGCATCAAAGGAAAAGACTCCTTC  
TCCCAAAGAAGAAGATGAGGAACCGGAAAGCCCGCCAGAAAAGAAAACATCTACAAGCCCCCACCAGAGAAATC  
TGGGGATGAAGGGTCTGAAGATGAAGCCCCTTCTGGGGAGGATTAAAAGTGATGATGGTCTGGGGAGAGATTTTA  
TTAAAAAAGAAAAGAGGGAGGAAAAAAGAACCTACTTAAGATAGAACATGGTTTTGGCTATGGCTT  
GACTCATGGGCTTTCAGTGCTTTTTTCCATTGTGTGAAAGTAACATTTCTCTCTCTCTCTTT

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**FIGURE 543**

AGCCTGAGGAGCTATTTTGAGCAATGGGGAATGCTCACGGACTGTGTGGTAATGAGAGACCCAAACACCAAGTGC  
TCCAGGGGCTTTGGGTTTGTACATATGCCATTGTGGAGGAGGTGGATGCAGCCATGAATGCAAGGCCACACAAG  
GTGGATGGAAGAGTTGGAGAACCAAAGAGAGCTGTTTCAAGGGAAGATTCTCAAAGACCAGGTGCTCACTTAACT  
GTGAAAAAGATATTTGTTGGCAGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATAATTTGAACAGTTTG  
GAAAAACGGAAGTGATTGAAATCATGACTGACTGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACCTTTG  
ATGACCATGACTCTGTGAATAAGACTGCCATTGAGAAATACCATCCTACGAATGGCCATAACTGTGAAGTTAGGA  
AAGCCCTGTCAAAGTAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAAGTCGAAGTGGTTCTGGAACTTTGGTT  
TGGTCGTGGAGGTGGTTTCGGTTGGCATGACAGCCGTGGTGGTGGTGGTGGATATGGTGGCAGTGAGGATGGCGA  
TAATGGATTTGGTAATGATGGAAGCAATTTTGAGGTTGGTGGGAAGCTACAGTGATTTTGGCAACTACAATAATCA  
GTCTTCAAATTTTGGACCCATGAAGGGAGGAACTTTGGAGGCAGAAGCTCTGGGCCCTATGGCGGTGGAGGCC  
AATACTCTGCCAAACCACGAAACCAAGGTGGCTATGGTGGTTTCAGTAGCAGCAGTAGCTATGGCAGTGGCAGAA  
GATTTTAATTAGGAAACAAAGCTTAGCTGGAGAGGAGAGCCGGAGAAGTGACAGGGAAGCTACAGGTTACAACAG  
ATTTGTGAAGTCAAGCAAGCAGTGGTGGCAGGGCCTAACTGCTACAAAGGAGACATGTTTGTAGACAAATACTC  
ATGTGTATGGGCAAAAACTCGAGGACTGTATTTGTGACTAATTGTGTAACAGGTTATTTAGTTTCTGTCTGT  
GGAAAGCGTAAAGCATTCCAACAAAGGGTTTTAATGCAGATTTTTTTTTTTTGGCACCCATGCTGTTGATTGCT  
AAATGTAATAGTCTGATGGTGTGCTGAATAAATGTCTT

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**FIGURE 544**

AGGCAGAGCCCGCGAGGAGGTGACGCGGCTGCGGAGGTGACGCGGGAGGTGCGCGCCCCCTTCCGGCGCGGGGAG  
GGCGCTGAAGATCGGGGGCCGCTCGGCCGCGAGGCCGCTCCAGCGCCGCGGGATGTAGCGCGGGGACCGCGGGCC  
CCAGCAGAGCCCGCTGCCCGGCTTTTAGAAGACCAAACTGGACAATGGACTTTGCTCACTATGATGACATGATC  
TCCATTGACCTCCATTTGTCTACCATCAGAGGGAGATCTCTGCCCCCTGGGGCTGAGAGACCCCAACCTTTCCCC  
AAGCTGAAGCTGCAGGGTATTGAGGTACCAGCCAGATGTCTTCCCAAAAGGATCTGTGGTGGCACAGGGGAATG  
GGGCTCCTGCCAGTAACAGGGAAGCTGACACGGTGAAGTGGCTGAACTGGGACCCCTGCTAGAAGAGAAGGGCA  
AACGGGTAAATCGCCAACCCACCCAAAGCTGAAGAAGAGCAAACTATGCCCAGTGCCCCAGGAAGAAGAGGAGGAGG  
TGCGGGTACTGACACTTCCCTGCAAGCCCACCACGCCATGGAGAAGATGGAAGAGTTTGTGTACAAGGTCTGGG  
AGGGACGTTGGAGGGTCAATCCCATATGATGTGCTCCCTGACTGGCTAAAGGACAACGACTATCTGTACATGGTC  
ATAGACCTCCCATGCCCTCCTTTGCGGCTTGCTTCAAGAGCATCTTCCGCATTTCATACAGAACTGGCAACATCT  
GGACCCATCTGCTTGGTTTCGTGCTGTTTCTCTTTTGGGAATCTTGACCATGCTCAGACCAAAATATGTACTTCA  
TGGCCCCCTCTACAGGAGAAGGTGGTTTTTGGGATGTTCTTTTGGGTGCAGTGCTCTGCCTCAGCTTCTCCTGGC  
TCTTTCACACCGTCTATTGTCAATTCAGAGAAAGTCTCTCGGACTTTTTCCAACTGGACTATTACAGGATTGCTC  
TTCTAATTATGGGGAGCTTTGTCCCTGGCTCTATTATTCTTCTACTGCTCCCCACAGCCACGGCTCATCTACC  
TCTCCATCGTCTGTGCTGCTGGGCATTTCTGCCATCATTGTGGCGCAGTGGGACCGGTTTGCCACTCCTAAGCACC  
GGCAGACAAGAGCAGGCGTGTCTCTGGGACTTGGCTTGAGTGGCGTCGTGCCCACCATGCACTTTACTATCGCTG  
AGGGCTTTGTCAAGGCCACCACAGTGGGCCAGATGGGCTGGTTCTTCTCATGGCTGTGATGTACATCACTGGAG  
CTGGCCTTTATGCTGCTCGAATTCCTGAGCGCTTCTTCTGGAAAATTGACATATGGTTCAGTCTCATCAGA  
TTTTCCATGTCTGGTGGTGGCAGCAGCCTTTGTCCACTTCTATGGAGTCTCCAACCTTCAGGAATTCGGTTACG  
GCCTAGAAGGCGGCTGTACTGATGACACCTTCTCTGAGCCTTCCCACCTGCGGGGTGGAGGAGGAACCTCCCAA  
GTGCTTTTAAAAATAACTTCTTTGCTGAAGTGAGAGGAAGAGTCTGAGTTGTCTGTTTCTAGAAGAAACCTCTTA  
GAGAATTCAGTACCAACCAAGCTTCAGCCCACTTTCACACCCACTGGGCAATAAACTTTCCATTTCCATTCTCCT  
AGCTGGGGATGGGGCATGGTCAAACCTTAGCCATCCCTCCTCAGCAAGGCATCTACCGGCCCTTCACAGAGACAG  
TACTTTGAACTCATGTTGAGATTTTACCCTCTCCTCCAACCATTTTGGGAAAATTATGGACTGGGACTCTTCAG  
AAATTCGTCTTTTCTTCTGGAAGAAAATGTCCCTCCCTTACCCCATCCTTAACTTTGTATCCTGGCTTATAAC  
AGGCCATCCATTTTGTAGCACACTTTTCAAAAACAATTATATACCCTGGTCCCATCTTCTAGGGCCTGGATCT  
GCTTATAGAGCAGGAAGAATAAAGCCACCAACTTTTACCTAGCCCGGCTAATCATGGAAGTGTGTCCAGGCTTCA  
AGTAACTTGAGTTTAAATTTTTTTTTTCTTGGCAGAGTAATGTAAAATTTAAATGGGGAAAGATATTTAATAT  
TTAATACTAAGCTTTAAAAAGAAACCTGCTATCATTGCTATGTATCTTGATGCAAGACTATGATGTTAATAAAA  
GAAAGTACAGAAGACACTTGGCATTCAAAGATTTT



**FIGURE 545**

[illegible]

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**FIGURE 546**

MARGPGPLGRPRPDTVAMPKRGKRLKFRAHDACSGRVTVADYANS DPAVVRSGRVKKAVANAVQQEVKSLCGLEA  
SQVPAEEALSGAGEPCDIIDSSDEMDAQEESIHERTVSRKKKSKRHKEELDGAGGEEYPMDIWLLASYIRPEDI  
VNFS LICKNAWTVTCTAAFWTRL YRRHYTL DASLPLRLRPESMEKLRCLRACVIRSLYHMYEPFAARISK NPAIP  
ESTPSTLKNSKCLLFWCRKIVGNRQEP MWEFNFKFKKQSPRLKSKCTGGLQPPVQYEDVHTNPDQDCCLLQVTTL  
NFI FIP IVMGMIFTLFTINVSTDMRHHRVRLVFQDSPVHGGRKLRSEQGVQVILDPVHSVRLFDWWHPQYPFSLR  
A

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**FIGURE 547**

AGTGGAGTGGGACAGGTATATAAAGGAAGTACAGGGCCTGGGGAAGAGGCCCTGTCTAGGTAGCTGGCACCAGGA  
GCCGTGGGCAAGGGAAGAGGCCACACCCCTGCCCTGCTCTGCTGCAGCCAGAATGGGTGTGAAGGCGTCTCAAACA  
GGCTTTGTGGTCTCTGGTGTCTCCAGTGTCTCTGCATACAACTGGTCTGCTACTACACCAGCTGGTCCCAG  
TACCGGGAAGCGATGGGAGCTGCTTCCCAGATGCCCTTGACCGCTTCTCTGTACCCACATCATCTACAGCTTT  
GCCAATATAAGCAACGATCACATCGACACCTGGGAGTGGAAATGATGTGACGCTCTACGGCATGCTCAACACACTC  
AAGAACAGGAACCCCAACCTGAAGACTCTCTTGTCTGTGCGAGGATGGAACTTTGGGTCTCAAAGATTTTCCAAG  
ATAGCCTCCAACACCCAGAGTCGCCGGACTTTCATCAAGTCAGTACCGCCATTTCTGCGCACCCATGGCTTTGAT  
GGGCTGGACCTTGCCCTGGCTCTACCTGGACGGAGAGACAAACAGCATTTTACCACCCTAATCAAGGAAATGAAG  
GCCGAATTTATAAAGGAAGCCAGCCAGGGAAGAGCAGCTCCTGCTCAGCGCAGCACTGTCTGCGGGGAAGGTC  
ACCATTGACAGCAGCTATGACATTGCCAAGATATCCCAACACCTGGATTTTATTAGCATCATGACCTACGATTTT  
CATGGAGCCTGGCGTGGGACCACAGGCCATCACAGTCCCCTGTTCCGAGGTGAGGAGGATGCAAGTCCCTGACAGA  
TTCAGCAACACTGACTATGCTGTGGGGTACATGTTGAGGCTGGGGGCTCCTGCCAGTAAGCTGGTGATGGGCATC  
CCCACCTTCGGGAGGAGCTTCACTCTGGCTTCTTCTGAGACTGGTGTGGAGCCCCAATCTCAGGACCGGGAATT  
CCAGGCCGGTTACCAAGGAGGCAGGGACCCCTTGCCCTACTATGAGATCTGTGACTTCCTCCGCGGAGCCACAGTC  
CATAGAATCCTCGGCCAGCAGGTCCCCTATGCCACCAAGGGCAACCAGTGGGTAGGATACGACGACCAGGAAAGC  
GTCAAAGCAAGGTGCAGTACCTGAAGGACAGGCAGCTGGCGGGCGCCATGGTATGGGCCCTGGACCTGGATGAC  
TTCCAGGGCTCCTTCTGTGGCCAGGATCTGCGCTTCCCTCTCACCATGCCATCAAGGATGCACTCGCTGCAACG  
TAGCCCTCTGTCTGCACACAGCACGGGGGCCAAGGATGCCCGTCCCCCTCTGGCTCCAGCTGGCCGGGAGCCT  
GATCACCTGCCCTGTGTAGTCCCAGGCTGAGCCTCAGTCTCCCTCCCTTGGGGCCTATGCAGAGGTCCACAACAC  
ACAGATTTGAGCTCAGCCCTGGTGGGCAGAGAGGTAGGGATGGGGCTGTGGGGATAGTGAGGCATCGCAATGTAA  
GACTCGGGATTAGTACACACTTGTGATTAATGGAAATGTTTACAGATCCCCAAGCCTGGCAAGGGAATTTCTTC  
AACTCCCTGCCCCCAGCCCTCCTTATCAAAGGACACCATTTTGGCAAGCTCTATCACCAGGAGCCAAACATCC  
TACAAGACACAGTGACCATACTAATTATACCCCTGCAAAGCCAGCTTGAAACCTTCACTTAGGAACGTAATCG  
TGTCCCCTATCCTACTTCCCCTTCCTAATTCCACAGCTGCTCAATAAAGTACAAGAGCTTAACAGTGTGTTGGCG  
CTTTGCTTTGGTCTATCTTTGAGCGCCACTAGACCCACTGGACTCACCTCCCCATCTCTCTGGGTTCCTTCC  
TCTGAGCCTTGGGACCCCTGAGCTTGCAGAGATGAGGCCGCCATGT

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**FIGURE 548**

CAGGGTAAACGCTGTCTTGTGGACCCGCACTTCCCACCCGAGACCTCTCACTGAGCCCGAGCCGCGCGACATGA  
GCCACGGGAAGGGAACCGACATGCTCCCGGAGATCGCCGCCGCCGTGGGCTTCCTCTCCAGCCTCCTGAGGACCC  
GGGGCTGCGTGAGCGAGCAGAGGCTTAAGGTCTTCAGCGGGCGCTCCAGGAGGCACTCACAGAGCACTACAAAC  
ACCACTGGTTTCCCGAAAAGCCGTCCAAGGGCTCCGGCTACCGCTGCATTTCGATCAACCACAAGATGGACCCCA  
TCATCAGCAGGGTGGCCAGCCAGATCGGACTCAGCCAGCCCCAGCTGCACCAGCTGCTGCCAGCGAGCTGACCC  
TGTGGGTGGACCCCTATGAGGTGTCTACCGCATTTGGGAGGACGGCTCCATCTGCGTCTTGTACGAGGAGGCC  
CACTGGCCGCTCCTGTGGGCTCCTCACCTGCAAGAACCAAGTGTGCTGGGCCGAGCAGCCCCCTCCAAGAACT  
ACGTGATGGCAGTCTCCAGCTAGGCCCTTCCGCCCCGCCCTGGGCGCCGCCGTGCTCATGCTGCCGTGACAACA  
GGCCACCACATACCTCAACCTGGGGAAGTGTATTTTAAATGAAGAGCTATTTATATATATTATTTTAAAG  
AAAGGAGGAAAAGAAACCAAGTGTATTTTAAAGAAAAAATCCTTCAAGGAGCTGCTTGGAAAGTGGCCTCCC  
CAGGTGCCTTTGGAGAGAACTGTTGCGTGTGAGTCTGTGAGCCAGTGTCTGCTATAGGAGGGGAGCTGTAA  
GGGGGTAGACCTAGCCAAGGAGAAGTGGGAGACGTTTGGCTAGCACCCAGGAAGATGTGAGAGGGAGCAAGCAA  
GGTTAGCAACTGTGAACAGAGAGGTGGGATTGCCCCGGGGGAGGAAGAGAGGCCAAGTTCAGAGCTCTCTGTC  
TCCCCAGCCAGACACCTGCATCCCTGGCTCCTCTATTACTCAGGGGCATTATGCCTGGACTTAAACAATACTA  
TGTTATCTTTTCTTTTATTTTCTAATGAGGTCTGGGCAGAGAGTGAAAAGGCCCTCTCCTGATTCTCTACTGTCC  
TAAGCTGCTTTTCTTGAAATCATGACTTGTCTAATTTCTACCTCAGGGGCCCTGTAGATGTTGCTTTCCAGCCA  
GGAATCTAAAGCTTTGGGTTTTCTGAGGGGGGAGGAGGGAAGTGGAGGTTATTGGGGTTAGGATGGAAGGAAAC  
TCTGCACAAAACCTTTGCTTTGCTAGTGTGCTTTGTGTGTATGTGTGGCAAATAATTTGGGGGTGATTGCAAT  
GAAATTTGGGACCCAAAGAGTATCCACTGGGGATGTTTTTTGGCCAAAACCTTCTCTTTTGAACCATGAAA  
GTCTTGATGCTGCTGCCATGATCCCTTTGAGAGGTGGCTCAAAAGCTACAGGGAAGTCCAGGTCTTTTACTG  
CCTTCTTTTCAAAAGCACAACTCTCCTCTAACCTCCCCCTCCCCCTTCCCTTCTGGTTCAGAGCTACCG  
TATTTCTAGGACAAGAGTTCTCAGTCACTGTGCAATATGCCCTGGGTCCCAGGAGGGTCTGGAGGAAAAGT  
GCTATCAGAACCTCCTGATGCCCTGGTGGGCTTAGGGAACCATCTCTCTGCTCTCCTTGGGATGATGGCTGGCT  
AGTCAGCCTTGCATGTATTCTTGGCTGAATGGGAGAGTGCCCCATGTTCTGCAAGACTACTTGGTATTCTTGTA  
GGCCCGACACTAAATAAAAGCCAAACCTTGGGCACTGTTTTTCTCCCTGGTGCTCAGAGCACCTGTGGGAAAGG  
TTGCTGTCTGTCTCAGTACAATCCAAATTTGTCTGAGACTTGTGCAATATATACTGTTGTGGGTTGGAGAAAAGT  
GGAAAGCTACACTGGGAAGAACTCCCTTCCCTTCAATTTCTCAGTGACATTGATGAGGGGTCTCATAAGACCTC  
GAGTTTCCCAAACCGAATCACCTTAAGAAGGACAGGGCTAGGGCATTGGCCAGGATGGCCACCCTCCTGCTGTT  
GCCCTTAGTGAGGAATCTTACCCCACTTCCCTTACCCCAAGGTTCTCCTCCCCACAGCCAGTCCCCTTCCCTG  
GATTTCTAAACTGCTCAATTTTGACTCAAAGGTGCTATTTACCAAACACTCTCCCTACCCATTCTGCCAGCTCT  
GCCTCCTTTTCAACTCTCCACATTTTGATTGCTTCCCAGACCTGCTTCCAGTCTTTATTGCTTTAAAGTTCAC  
TTTGGGCCACAGACCCAAAGAGCTAATTTTCTGTTTGTGGGTTGAAACAAAGCTGTGAATCACTGCAGGCTGTG  
TTCTTGATCTGTCTGCAACAGGTCCCTGCCTTTTTGAAGCAGCCTCATGGTCTCATGCTTAATCTTGCTC  
TCTTCTCTCTTTATGATGTTCACTTTAAAAACAACAAACCCCTGAGCTGGACTGTTGAGCAGGCCTGTCTCTC  
CTATTAAGTAAAAATAAATAGTAGTAGTATGTTTGAAGCTATTCTGACAGAAAAGACAAAGGTTACTAATTGTA  
TGATAGTGTTTTATATGAAGAATGTACAGCTTATGGACAAATGTACACCTTTTGTACTTTAATAAAAAATGT  
AGTAGGATAAAAAAAA

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**FIGURE 549**

MSHGKGT DMLPEIAAAV GFLSSLLR TRGCVSE QRLKVF SGALQEAL TEHYKHHW FPEKPSKG SGYRCIRI NHKMD  
PIISRVA SQIGLSQP QLHQLLP SELTLW VDPYEV SYRIGEDG SICVLY EEAPLA ASCGLLTCK NQVLLGR SSPSK  
NYVMAVSS

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**FIGURE 550**

ATGTCCATGAGGAGCCCCATCTCTGCCAGCTGGCCCTGGATGGCGTTGGCACCATGGTGAAGTGCACCATCAAG  
TCAGAGGAGAAGAAAGAGCCTTGCCACGAGGCCCCCAGGGCTCAGCCACTGCCGCTGAACCTCAGCCTGGAGAC  
CCAGCCCGGGCCTCCCAGGATAGTGCTGACCCCAAGCTCCAGCCCAGGGGAATTCAGGGGCTCCTGGGACTGT  
AGCTCTCCAGAGGGTAATGGGTCCCCAGAACCAAGAGACCAGGAGCGTCGGAGGCTGCCTCTGGAAGCCAGGAG  
AAGCTGGACTTCAACCGAAATTTGAAAGAAGTGGTGCCAGCCATAGAGAAGCTGTTGTCCAGTGAAGGAG  
AGGTTTCTAGGAAGGAACCTATGGAAGCCAAGATGTCAAAGGGACCCAAGAGAGCCTAGCAGAGAAGGAGCTC  
CAGCTTCTGGTCATGATTACCCAGCTGTCCACCCTGCGGGACCAGCTCCTGACAGCCCACTCGGAGCAGAAGAAC  
ATGGCTGCCATGCTGTTTGAGAAGCAGCAGCAGCAGATGGAGCTTGCCCGCAGCAGCAGGAGCAGATTGCAAAG  
CAGCAGCAGCAGCTGATTACGACAGCAGCATAAGATCAACCTCCTTCAGCAGCAGATCCAGCAGGTTAACATGCCT  
TATGTATGATCCAGCCTTCCCCCAAGCCACCAACCTCTGCCTGTACCCCTGACTCCAGCTGGCCTTACCC  
ATTAGCCCATTCCTTGCAAACCAAGTGGAGTATCCGCTGCAGCTGCTGCACAGCCCCCTGCCCAAGTGGTGAAG  
AGGCCTGGGGCCATGGCCACCCACCACCCCTGCGAGGAGCCCTCCAGCCCTGAACCTCACAGCCAAGCCCAAG  
GCCCCGAGCTGCCAACACCTCCAGCTCCCCAAGCCTGAAGATGAGCAGCTGTGTGCCCCGCCCCCCAGCCAT  
GGAGGCCCCACGCGGGACCTGCAGTCCAGCCCCCGAGCCTGCCTCTGGGCTTCTTGGTGAAGGGGACGCTGT  
ACCAAAGCCATCCAGGATGCTCGGCAGCTGCTGCACAGCCACAGTGGGGCCTTGGATGGCTCCCCAACACCCCC  
TTCCGTAAGGACCTCATCAGCCTGGACTCATCCCCAGCCAAGGAGCGGCTGGAGGACGGCTGTGTGCACCCACTG  
GAGGAAGCCATGCTGAGCTGCGACATGGATGGCTCCCGCCACTTCCCGAGTCCCGAAACAGCAGCCACATCAAG  
AGGCCATGAACGCCCTTCATGGTGTGGGCCAAGGATGAGCGGAGGAAGATCCTGCAAGCCTTCCCAGACATGCAC  
AACTCCAGCATCAGCAAGATCCTTGATCTCGCTGGAAGTCCATGACCAACCAGGAGAAGCAGCCCTACTATGAG  
GAACAGGCGCGGCTGAGCCGGCAGCACCTGGAGAAGTATCCTGACTACAAGTACAAGCCGCGGCCCAAGCGCACC  
TGCATCGTGGAGGGCAAGCGGCTGCGCGTGGGAGAGTACAAGGCCCTGATGAGGACCCGCGCTCAGGATGCCCGC  
CAGAGCTACGTGATCCCCCGCAGGCTGGCCAGGTGAGCTGAGCTCCTCAGATGTCCTGTACCCCTCGGGCAGCA  
GGCATGCCGCTGGCACAGCCACTGGTGGAGCACTATGTCCCTCGTAGCCTGGACCCCAACATGCCTGTGATCGTC  
AACACCTGCAGCCTCAGAGAGGAGGGTGAGGGCAAGATGACAGGCACTCGGTGGCTGATGGCGAGATGTACCGG  
TACAGCGAGGACGAGGACTCGGAGGGTGAAGAGAAGAGCCGATGGGGAGTTGGTGGTGTCTACAGACTGATCCCCG  
CTGGGTGGGCCTGGCCCCCTTCTCCTCTGGGGAAGACCTTGTCCCAACTCGATGGGCACAGCCAGCCAACCTAAGA  
CTATGTTGGTACTTGGACTTGTTCGTGCCCCAGAGATGGGCAAGCTGTGCACTTGAGATACATTATGAGGGG  
AGAGGCGCCCTCCCTTCCCTGAGGAGCTGTTGGCCTGGGTGGGCAGGAAGTGCAGTATGGCCATGGGCTGAGCAGG  
CTGAGCACCTCAGCCTTTAGGGCTTATGGCCAGGGGACACTGTATGACTCTCCTCTCCTGCAGGTGTCTATCCAC  
CTGGGGTATGGCATCTACCGACCTGTCTCCCTGGGGTACATGCTTTGTTTCCATTCTGTCTGGCTGGACCAG  
CCACTGTGGGACCAACACCCCTCCCACACTCCCCAGACTGCTCGTCTATCACCAGGATCGCTTTGTACTTTGTG  
CAAAAGGGTCTGGCTGTCCCTTGCTGTTTTCATCTCTGCCAAGCCTATTGTGCCCTCTGGCTGCTGTATGTGTGCG  
CGTGACGCTGTGTGTTTTTCATCTGTTTCACTGCACAAGATATTTATTGAGTGGCCACTACGTGCCAGGCAC  
TGTGTCTGAGTTCTGTGGGTGTGTCTCTCGATGCCACTCCTGCTTCTCTGGGGGCTCTTTCTGTGCTTCTCTT  
TGTCGCCAAATTGCTACCTCTTTGTCTAGTCTGGGTGTCTCAGGTTCTGTGTGCTCTGTGTGCATTTCTGTCTCT  
CTCTGTCTCTGCTCTCTGCAAGGCCCTCTATTTCTCTCTTTCTTGGTGTCTGTCTTTGCCCCCTGTGCCCTCT  
GGATTCTCTGGGTCTATGTAGGCCCTGGTCTGCCCTGGGCTCATCAGCCTTCTGACCTCCTCTGCCCTCCCC  
TTCACTCCCTCCCTGGCTCTGCCAGTCGGTTCCACGGAGCCATTTTTAGCTCTGATCAGCATGGGAATGTGCCT  
CGGCCTCCAAGGGGCTTTGTCTGGTGGCCCCGCCCCCTGGTCCCAACCTGATCCACGAGGGAGTTGGGACAGGA  
GGATTGATGGTGTCTCCCTTCCCTGCCAGCGTCAGAGGCCCTGGAGAGGGGCTGTCCATGGCAGCTGGTCTTTATT  
CCTCCCTCATGAGCACAGGGTGGGGGGGTCCCCATTCTTGAAGAGGTTGAGAAGACTCCTGGGCTTCAGCCTC  
TCCCACCCAGCCCTGCCCTCACCTGCCCTGCCCTCCCCCTCCCCACTCTATACTAGGGACTGGATCTCAGCCTCT  
GATCAGTTTCAAAAGTTTGTTCCTAAGGAAATCAAATCCCATTTGTACCTAACTCTGAAGATCTAAATAGCCC  
TTGGATCAGTATGGGAACCCCAAATCCACAGGGCCAGATGTGGAGTCTGTGTCTGCCCCGCTCTCTCTCCATC  
CTCAAAGCCCCCACTTCTCTCCAGGCTGTTTCTTTTTTATGACTGTAAACATAGATAGTCTTTATTTTGTAA  
TAATAAGATAATGATGAGTAACCTAACCAGCACATTTCTCTGTTTACACTCGGGGGATTTTTTTGTTTTCTGAT  
GACATAATAAAGACAGATCATTTTCAGAAAAA

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**FIGURE 551**

MSMRSPISAQLALDGVGTMVNCTIKSEEEKKEPCHEAPQGSATAAEPQPGDPARASQDSADPQAPAQGNFRGSWDC  
SSPEGNGSPEPKRPGASEAASGSQEKLDNFNRNLKEVVPKLLSSDWKERFLGRNSMEAKDVKGTQESLAEKEL  
QLLVMIHQSLTLRDQLLTAHSEQKNMAAMLFEKQQQMEELARQQEQIAKQQQQLIQQQHKINLLQQQIQQVNM  
YVMIPAFPPSHQPLPVTQDSQLALPIQPIPCPKVEYPLQLLHSPAPVVKRPGAMATHHPLQEPSQPLNLTAKPK  
APELPNTSSSPSLKMSSCVPRPPSHGGPTRDLQSSPPLPLGFLGEGDAVTKAIQDARQLLHSHSGALDGSPTNP  
FRKDLISLDSSPAKERLEDGCVHPLEEAMLSMDGSRHFPESRNSHIKRPMAFMVWAKDERRKILQAFPMH  
NSSISKILGSRWKSMTNQEKQPYEEQARLSRQHLEKYPDYKYKPRPKRTCIVEGKRLRVGEYKALMRTTRQDAR  
QSYVIPPAQAGVQMSSSDVLYPRAAGMPLAQPLVEHYVPRSLDPNMPVIVNTCSLREEGEGTDDRHSVADGEMYR  
YSEDEDSEGEKSDGELVVLTD

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**FIGURE 552**

AACTGCCATCTTCCAGTAATTCGCCAAAATGACGAATACAAAGGGAAAGAGGAGAGGCACCCGATGTATGTTCTC  
TAGGCCTTTTAGAAAACATGGAGTTGTTCCTTTGGCCACGTATATGCGAGTCTATAAGAAAGGTGATATTGTAGA  
CATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACACGCGTTACCACGGCAAACTGGAAGAGTCTACAA  
TGTTACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAAGGCAAGATTCTTGCCAAGAGAATTAATGT  
GCGTATTGAGCACATTAAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGTGTGAAGGAAAATGATCAGAAAAA  
GAAAGAAGCCAAAGAGAAAAGTTACCTGGATTCAACTAAAGCGCCAGCCTGCTCCACCCAGAGAAGCACACTTTGT  
GAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCCTATGAATTCATGGCATAATAGGTGTTAAAAAA  
AAAAA



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**FIGURE 553A**

GCTTTTCAGGCGATCTGGAGAAAGAACGGCAGAACACACAGCAAGGAAAGGTCCTTTCTGGGGATCACCCCATTGG  
CTGAAGATGAGACCATTCTTCTCTTGTGTTTTGCCCTGCCCTGGCCTCCTGCATGCCCAACAAGCCTGCTCCCGT  
GGGGCCTGCTATCCACCTGTTGGGGACCTGCTTGTGGGAGGACCCGGTTTCTCCGAGCTTCATCTACCTGTGGA  
CTGACCAAGCCTGAGACCTACTGCACCCAGTATGGCGAGTGGCAGATGAAATGCTGCAAGTGTGACTCCAGGCAG  
CCTCACAACTACTACAGTCACCGAGTAGAGAATGTGGCTTCATCCTCCGGCCCCATGCGCTGGTGGCAGTCCAG  
AATGATGTGAACCCTGTCTCTCTGCAGCTGGACCTGGACAGGAGATTCCAGCTTCAAGAAGTCATGATGGAGTTC  
CAGGGGGCCATGCCCGCCGGCATGCTGATTGAGCGCTCCTCAGACTTCGGTAAGACCTGGCGAGTGTACCACTAC  
CTGGCTGCCACTGCACCTCCACCTTCCCTCGGGTCCGCCAGGGTCCGGCTCAGAGCTGGCAGGATGTTCGGTGC  
CAGTCCCTGCCCTCAGAGGCCTAATGCACGCCTAAATGGGGGGAAGGTCCAACCTTAACCTTATGGATTTAGTGTCT  
GGGATTCCAGCAACTCAAAGTCAAAAATTCAAGAGGTGGGGGAGATCACAACTTGAGAGTCAATTTACCAGG  
CTGGCCCCGTGCCCCAAAGGGGCTACCACCCTCCAGCGCCTACTATGCTGTGTGCCAGCTCCGTCTGCAGGGG  
AGCTGCTTCTGTACGGCCATGCTGATCGCTGCCACCCAAGCCTGGGGCCTCTGCAGGCCCCCTCCACCGCTGTG  
CAGGTCCACGATGTCTGTGTCTGCCAGCACAACTGCCGGCCCAAATTGTGAGCGCTGTGCACCTTCTACAAC  
AACCGGCCCTGGAGACCGGGCGGAGGGCCAGGACGCCCATGAATGCCAAAGGTGCGACTGCAATGGGCACTCAGAG  
ACATGTCACTTTGACCCCGCTGTGTTGCCGCCAGCCAGGGGGCATATGGAGGTGTGTGTGACAATTGCCGGGAC  
CACACCGAAGGCAAGAACTGTGAGCGGTGTGAGTGCAGTACTATTTCCGGAACCGGCGCCCGGGAGCTTCCATTGAG  
GAGACCTGCATCTCCTGCGAGTGTGATCCGGATGGGGCAGTGCAGGGGCTCCCTGTGACCCAGTGACCGGGCAG  
TGTGTGTGCAAGGAGCATGTGCAGGGAGAGCGCTGTGACCTATGCAAGCCGGGCTTCACTGGACTCACCTACGCC  
AACCCGCAGGGCTGCCACCGCTGTGACTGCAACATCCTGGGGTCCCGAGGGACATGCCGTGTGACGAGGAGAGT  
GGGCGCTGCCTTTGTCTGCCAACGTGGTGGGTCCCAAATGTGACCAGTGTGCTCCCTACCACTGGAAGCTGGCC  
AGTGGCCAGGGCTGTGAACCGTGTGCCTGCGACCCGACAACTCCCTCAGCCACAGTGCAACCAAGTTCACAGG  
GCAGTGCCTGTGCGGAAGGCTTTGGTGGCCTGATGTGCAGCGCTGCAGCCATCCGCCAGTGTCCAGACCGGACC  
TATGGAGACGTGGCCACAGGATGCCGAGCCTGTGACTGTGATTTCCGGGAACAGAGGGCCCGGGCTGCGACAAG  
GCATCAGGCCGCTGCCTCTGCCGCCCTGGCTTGACCGGGCCCCGCTGTGACCAGTGCCAGCGAGGCTACTGCAAT  
CGCTACCCGGTGTGCGTGGCCTGCCACCCTTGCTTCCAGACCTATGATGCGGACCTCCGGGAGCAGGCCCCTGCGC  
TTTGGTAGACTCCGCAATGCCACCGCCAGCCTGTGGTTCAGGGCCTGGGCTGGAGGACCGTGGCCTCCCGG  
ATCCTAGATGCAAAGAGTAAGATTGAGCAGATCCGAGCAGTTCTCAGCAGCCCCGCAGTCACAGAGCAGGAGGTG  
GCTCAGGTGGCCAGTGCCATCCTCTCCCTCAGGCGAACTCTCCAGGGCCTGCAGCTGGATCTGCCCTGGAGGAG  
GAGACGTTGTCCCTTCCGAGAGACCTGGAGAGTCTTGACAGAAGCTTCAATGGTCTCCTTACTATGTATCAGAGG  
AAGAGGGAGCAGTTTGA AAAAATAAGCAGTGTGATCCTTCAGGAGCCTTCCGGATGCTGAGCACAGCCTACGAG  
CAGTCAGCCCAGGCTGCTCAGCAGTCTCCGACAGCTCGCGCCTTTTGGACCAGCTCAGGGACAGCCGGAGAGAG  
GCAGAGAGGCTGGTGGCGCAGGCGGGAGGAGGAGGACCGGCAGCCCCAAGCTTGTGGCCCTGAGGCTGGAG  
ATGTCTTCGTTGCCTGACCTGACACCCACCTTCAACAAGCTCTGTGGCAACTCCAGGCAGATGGCTTGACCCCCA  
ATATCATGCCCTGGTGAGCTATGTCCCAAGACAATGGCACAGCCTGTGGCTCCCGCTGCAGGGGTGTCTTCCC  
AGGGCCGGTGGGGCCTTCTTGATGGCGGGGCAGGTGGCTGAGCAGCTGCGGGGCTTCAATGCCAGCTCCAGCGG  
ACCAGGCAGATGATTAGGGCAGCCGAGGAATCTGCCTCACAGATTCAATCCAGTGCCAGCGCTTGGAGACCCAG  
GTGAGCGCCAGCGCTCCAGATGGAGGAAGATGTGAGACGCACACGGCTCCTAATCCAGCAGGTCCGGGACTTC  
CTAACAGACCCCGACACTGATGCAGCCACTATCCAGGAGGTGAGCGAGGCGTGTGCTGGCCCTGTGGCTGCCACA  
GACTCAGCTACTGTTCTGCAGAAGATGAATGAGATCCAGGCCATTGCAGCCAGGCTCCCCAACGTGGACTTGGTG  
CTGTCCAGACCAAGCAGGACATTGCGCGTCCCCGCCGGTTGCAGGCTGAGGCTGAGGAAGCCAGGAGCCGAGCC  
CATGCACTGGAGGGCCAGGTGGAAGATGTGTTGGGAACCTGCGGCAGGGGACAGTGGCACTGCAGGAAGCTCAG  
GACACCATGCAAGGCACCGCCTCCCTTCCGGCTTATCCAGGACAGGGTTGCTGAGGTTTCCAGGTTACTGCGG  
CCAGCAGAAAAGCTGGTGACAAGCATGACCAAGCAGCTGGGTGACTTCTGGACACGGATGGAGGAGCTCCGCCAC  
CAAGCCCGGCAGCAGGGGGCAGAGGCAGTCCAGGCCAGCAGCTTGCAGGAAGGTGCCAGCGAGCAGGCATTGAGT  
GCCCCAAGAGGGGATTTGAGAGAATAAAACAAAAGTATGCTGAGTTGAAGGACCGGTTGGGTGAGATTCCATGCTG  
GGTGAGCAGGGTGCCCGGATCCAGAGTGTGAAGACAGAGGCAGAGGAGCTGTTGGGGAGACCATGGAGATGATG  
GACAGGATGAAAGACATGGAGTTGGAGCTGTGCGGGGCAGCCAGGCCATCATGCTGCGCTCGGCGGACCTGACA  
GGACTGGAGAAGCGTGTGGAGCAGATCCGTGACCACATCAATGGGCGCGTGTCTACTATGCCACCTGCAAGTGA

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**FIGURE 553B**

TGCTACAGCTTCCAGCCCGTTGCCCCACTCATCTGCCGCCTTTGCTTTTGGTTGGGGGCAGATTGGGTTGGAATG  
CTTTCCATCTCCAGGAGACTTTCATGCAGCCTAAAGTACAGCCTGGACCACCCCTGGTGTGTAGCTAGTAAGATT  
ACCCTGAGCTGCAGCTGAGCCTGAGCCAATGGGACAGTTACACTTGACAGACAAAGATGGTGGAGATTGGCATGC  
CATTGAAACTAAGAGCTCTCAAGTCAAGGAAGCTGGGCTGGGCAGTATCCCCGCCTTTAGTTCTCCACTGGGGA  
GGAATCCTGGACCAAGCACAAAACTTAACAAAAGTGATGTAAAAATGAAAAGCCAAATAAAAAATCTTTGG

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**FIGURE 554**

MRFFLLCFALPGLLHAQQACSRGACYPPVGDLLVGRTRFLRASSTCGLTKPETYCTQYGEWQMKCKCDSRQPH  
NYYSHRVENVASSSGPMRWWQSQNDVNPVSLQLDLDRRFQLQEVMMEFQGPMPAGMLIERSSDFGKTWRVYQYLA  
ADCTSTFPVRVQRQPSQSWQDVRCQSLPQRPNARLNGGKVQLNMDLVSGIPATQSQKIQEVGEITNLRVNFTRLA  
PVPQRGYHPPSAYYAVSQLRLQGSCFCHGHADRCAPKPGASAGPSTAVQVHDVCVCQHNTAGPNCERCAPFYNNR  
PWRPAEGQDAHECQRCDCNGHSETCHFDPAVFAASQGAYGGVCDNCRDHTEGKNCERCQLHYFRNRRPGASIQET  
CISCECDPDGAVPGAPCDPVTGQCVCKEHVQGERCDLCKPGFTGLTYANPQGCHRCDCNILGSRRDMPCDEESGR  
CLCLEPNVVGPKCDQCAPYHWKLASGQGCEPCACDPHNSPQPTVQPVHRAVPCREGFGGLMCSAAAIRQCPDRTYG  
DVATGCRACDCDFRGTEGPGCDKASGRCLCRPGLTGPRCDQCQRGYCNRYPVCVACHPCFQTYDADLREQALRFG  
RLRNATASLWSGPGLEDRLASRILDASKIEQIRAVLSSPAVTEQEVAQVASAILSLRRTLQGLQLDLPLEEET  
LSLPRDLESLSRFSNGLLTMYQRKREQFEKISSADPSGAFRMLSTAYEQSAQAAQVSDSSRLDQLRDSRREAE  
RLVRQAGGGGGTGSPKLVALRLEMSSLPDLTPTFNKLCGNSRQMACTPISCPGELCPQDNGTACGSRCRGVLPRA  
GGAFILMAGQVAEQLRGFNAQLQRTROMIRAAEESASQIQSSAQRLTQVSASRSQMEEDVRRTLLIQQVRDFLT  
DPDTDAATIQEVSEAVLALWLPTDSATVLQKMNEIQAIARLPNVDLVLSQTKQDIARARRLQAEAEARSRAHA  
VEGQVEDVVGNLRQGTVALQEAQDTMQGTSRSLRLIQDRVAEVQVLRPAEKLVTSMKQLGDFWTRMEELRHQA  
RQQGAEAVQAQQLAEGASEQALSAQEGFERIKQKYAELKDRLGQSSMLGEQGARIQSVKTEAEELFGETMEMMDR  
MKDMELELLRGSQAIMLRSADLTGLEKRVEQIRDHINGRVLYATCK

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**FIGURE 555**

GCGGAGTCTCCAAC TGGGAGAGCTGCAGCTGCCGAGAGGAGGAGAACGCTGAGGTCGGTCGGACCAACGGACGCG  
CTGACCGCTGCCAACTGCAGCTCGCGCTGCCTCCTGCTCGCGCCGTGCCACTAAGGTCCTCCGCTCCGAGAG  
CCCAGAGCCGAGATGGAAACGGTCCAGGAGCTGATCCCCCTGGCCAAGGAGATGATGGCCCAGAAGCGCAAGGGG  
AAGATGGTGAAGCTGTACGTGCTGGGCAGCGTGCTGGCCCTCTTCGGCGTGGTGCTCGGCCTGATGGAGACTGTG  
TGCAGCCCCCTTCACGCGCCGCCAGACGTCTGCGGGACCAGGAGGCAGCCGTGGCGGAGCTGCAGGCCGCCCTGGAG  
CGACAGGCTCTCCAGAAGCAAGCCCTGCAGGAGAAAGGCAAGCAGCAGGACACGGTCCTCGGCGGCCGGGCCCTG  
TCCAACCGGCAGCACGCCTCCTAGGAACTGTGGGAGACCAGCGGAGTGGGAGGGAGACGCAGTAGACAGAGACAG  
ACCGAGAAGGAAGGGAGAGACAGAGGGGGCGCGCGCACAGGAGCCTGACTCCGCTGGGAGAGTGCAGGAGCACGT  
GCTGTTTTTTTATTTGGACTTAACCTTCAGAGAAACCGCTGACATCTAGAACTGACCTACCACAAGCATCCACCAA  
GGAGTTTGGGATTGAGTTTGTGCTGTGCAGCACTGCATTGTGATGACATTCCAACACTGTGTGAATTATCTA  
AATGCGTCTACCATTTGCACTAGGGAGGAAGGATAAATGCTTTTTATGTTATTATTATTAAATTATTACAATGAC  
CACCATTTTGCATTTTGAAATAAAAAACTTTTATACCAAAAAAAAAAAAAAAAAA

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**FIGURE 556**

METVQELIPLAKEMMAQKRKGKMKLYVLGSLALFGVVLGLMETVCSPFTAARRLRDQEAAVAELQAALERQAL  
QKQALQEKKGKQQDTVLGGRALSNRQHAS

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**FIGURE 557**

CCCGCCTCCGAGAGCCCAGAGCCGAGATGGAAACGGTCCAGGAGCTGATCCCCCTGGCCAAGGAGATGATGGCCC  
AGAAGCGCAAGGGGAAGATGGTGAAGCTGTACGTGCTGGGCAGCGTGCTGGCCCTCTTCGGCGTGGTGCTCGGCC  
TGATGGAGACTGTGTGCAGCGGAGTGGGAGGGAGACGCAGTAGACAGAGACAGACCGAGAGAGGAATGGAGAGAC  
AGAGGGGGCGCGCGCACAGGAGCCTGACTCCGCTGGGAGAGTGCAGGAGCACGTGCTGTTTTTTATTGGACTTA  
ACTTCAGAGA

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**FIGURE 558**

CCGCTGGGCGTAGCTGCGACTCGGCGGAGTCCCGGCGGCGCGTCCTTGTTCTAACCCGGCGCGCCATGACCGTCG  
CGCGGCCGAGCGTGCCCGCGGCGCTGCCCCCTCCTCGGGGAGCTGCCCCGGCTGCTGCTGCTGGTGCTGTTGTGCC  
TGCCGGCCGTGTGGGGTGAAGTGTGGCCTTCCCCCAGATGTACCTAATGCCAGCCAGCTTTGGAAGGCCGTACAA  
GTTTTCCCGAGGATACTGTAATAACGTACAAATGTGAAGAAAGCTTTGTGAAAATTCCTGGCGAGAAGGACTCAG  
TGATCTGCCTTAAGGGCAGTCAATGGTCAGATATTGAAGAGTTCTGCAATCGTAGCTGCGAGGTGCCAACAGGC  
TAAATTCTGCATCCCTCAAACAGCCTTATATCACTCAGAATTATTTCCAGTCGGTACTGTTGTGGAATATGAGT  
GCCGTCCAGGTTACAGAAGAGAACCTTCTCTATCACAAAATAACTTGCCTTCAGAAATTTAAAATGGTCCACAG  
CAGTCGAATTTTGTAAAAAGAAATCATGCCCTAATCCGGGAGAAATACGAAATGGTCAGATTGATGTACCAGGTG  
GCATATTATTTGGTGCAACCATCTCCTTCTCATGTAACACAGGGTACAAATTATTTGGCTCGACTTCTAGTTTTT  
GTCTTATTTTTCAGGCGCTCTGTCCAGTGGAGTGACCCGTTGCCAGAGTGACAGAGAAATTTATTGTCCAGCACCAC  
CACAAATTGACAAATGGAATAATTCAGGGGAACGTGACCATTATGGATATAGACAGTCTGTAACGTATGCATGTA  
ATAAAGGATTACCATGATTGGAGAGCACTCTATTTATTGTACTGTGAATAATGATGAAGGAGAGTGGAGTGGCC  
CACCACCTGAATGCAGAGGAAAATCTCTAATCTCCAAGTCCCACCAACAGTTCAGAAACCTACCACAGTAAATG  
TTCCAATACAGAAGTCTCACCAACTTCTCAGAAAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCA  
GGAGTACACCTGTTTCCAGGACAACCAAGCATTTCATGAAACAACCCCAATTAAGGAAGTGAACCACTTCAG  
GTACTACCCGTCTTCTATCTGGGCACACGTGTTTCACGTTGACAGGTTTGCTTGGGACGCTAGTAACCATGGGCT  
TGCTGACTTAGCCAAAGAAGAGTTAAGAAGAAAATACACACAAGTATACAGACTGTTTCTAGTTTCTTAGACTTA  
TCTGCATATTGGATAAAATAAATGCAATTGTGCTCTTCATTTAGGATGCTTTCATTGTCTTTAAGATGTGTTAGG  
AATGTCAACAGAGCAAGGAGAAAAAGGCAGTCCTGGAATCACATTCTTAGCACACCTACACCTCTTGAAAATAG  
AACAACCTTGCAAAATTGAGAGTGATTCTTTTCTAAAGTGTAAGAAAGCATAGAGATTTGTTTCGTATTTAGAA  
GGGATCACGAGGAAAAGAGAAGGAAAGTGATTTTTTCCACAAGATCTGTAATGTTATTTCCACTTATAAAGGAA  
ATAAAAAATGAAAAACATTATTTGGATATCAAAAGCAATAAAAAACCAATTTCAGTCTCTTCTAAGCAAAATTGC  
TAAAGAGAGATGAACCACATTATAAAGTAATCTTTGGCTGTAAGGCATTTTCATCTTCTCCTTCGGGTGGCAAAA  
TATTTTAAAGGTAAACATGCTGGTGAACCAAGGGGTGTTGATGGTGATAAGGGAGGAATATAGAATGAAAGACTG  
AATCTTCTTTTGTGACAAATAGAGTTTGAAAAAGCCTGTGAAAGGTGCTTCTTTGACTTAATGTCTTTAAA  
AGTATCCAGAGATACTACAATATTAACATAAGAAAAGATTATATATTATTTCTGAATCGAGATGCCATAGTCAA  
ATTTGTAAATCTTATCTTTTGTAAATATTATTTATATTATTTATGACAGTGAACATTCTGATTTTACATGTAA  
AACAAGAAAAGTTGAAGAAGATATGTGAAGAAAATGTATTTTCTAAATAGAAATAAATGATCCCATTTTTTG  
GT

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**FIGURE 559**

MTVARPSVPAALPLLGE LPRLLLLVLLCLPAVWGDCGLPPDV PNAQPALEGRTSFPEDTVITYKCEESFVKIPGE  
KDSVICLKGSQWSDIEEFCNRSCEVPTRLNSASLKQPYITQNYFPVGTVVEYECRPGYRREPSLSPKLTCLQNLK  
WSTAVEFCKKKSCPNPGEIRNGQIDVPGGILFGATISFSCNTGYKLFGSTSSFCLISGSSVQWSDPLPECREIYC  
PAPPQIDNGIIQGERDHYGYRQSVTYACNKGFTMIGEHSIYCTVNNDEGEWSGPPPECRGKSLTSKVPPTVQKPT  
TVNVPTTEVSPTSQKTTTKTTTPNAQATRSTPVSRTTKHFHETTPNKGSGTTS GTTRLLSGHTCFTLTGLLGLTV  
TMGLLT



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**FIGURE 560A**

GTGGATTGGTCGTCTCCCTGATTCCGAGCTGCGGGCAGGGAGAGGGGCCCTCGCGCCGCCCTCAGCAGCCGGCGG  
CGGCCGAGGTAGACCGAGCGGGGACGGAAGGACAGACCGACGTCGCCGAGCTGGAATCATGTGAGGGCCAACCGG  
GGAAGGTGGAGCAGATGAGCACACACAGGAGCCGTCTCCTACCGCCGCCCTCTCAGCATGGAACAGAGGCGGC  
CCTGGCCCCGGGCCCTGGAGGTGGACAGCCGCTCTGTGGTCTGTCTCAGTGGTCTGGGTGCTGCTGGCCCCC  
CAGCAGCCGGCATGCCTCAGTTCAGCACCTTCCACTCTGAGAATCGTGA CTGGACCTTCAACCACTTGACCGTCC  
ACCAAGGGACGGGGGCCGTCTATGTGGGGGCCATCAACCGGGTCTATAAGCTGACAGGCAACCTGACCATCCAGG  
TGGCTCATAAGACAGGGCCAGAAGAGGACAACAAGTCTTGTTACCGGCCCTCATCGTGACGCCCTGCAGCGAAG  
TGCTCACCTCACCAACAATGTCAACAAGCTGCTCATCTGACTACTCTGAGAACCCTGCTGGCCTGTGGGA  
GCCTCTACCAGGGGTCTGCAAGCTGCTGCGGCTGGATGACCTCTTCATCCTGGTGGAGCCATCCCAAGAAGG  
AGCACTACCTGTCCAGTGTCAACAAGACGGGCACCATGTACGGGGTGATTGTGCGCTCTGAGGGTGAGGATGGCA  
AGCTCTTCATCGGCACGGCTGTGGATGGGAAGCAGGATTACTTCCCGACCTGTCCAGCCGGAAGCTGCCCCGAG  
ACCTTGAGTCTCAGCCATGCTCGACTATGAGCTACACAGCGATTTTGTCTCCTCTCTCATCAAGATCCCTTCAG  
ACACCTGGCCCTGGTCTCCCACTTTGACATCTTCTACATCTACGGCTTTGCTAGTGGGGGCTTTGTCTACTTTC  
TCACTGTCCAGCCCGAGACCCCTGAGGGTGTGGCCATCAACTCCGCTGGAGACCTCTTCTACACCTCACGCATCG  
TGCGGCTCTGCAAGGATGACCCCAAGTTCACCTCATACGTGTCCCTGCCCTTCGGCTGCACCCGGGCGGGGTGG  
AATACCGCTCCTGCAGGCTGCTTACCTGGCCAAGCTGGGGACTCACTGGCCAGGCCTTCAATATCACAGCC  
AGGACGATGTACTCTTTGCCATCTTCTCCAAAGGGCAGAAGCAGTATCACACCCGCCCGATGACTCTGCCCTGT  
GTGCTTCCCTATCCGGGCCATCAACTTGCAGATCAAGGAGCGCCTGCAGTCTGTCTACCAGGGCGAGGGCAACC  
TGGAGCTCAACTGGCTGTGGGGAAGGACGTCCAGTGCACCAAGGCGCCTGTCCCATCGATGATAACTTCTGTG  
GACTGGACATCAACCAGCCCTGGGAGGCTCAACTCCAGTGGAGGGCCTGACCCTGTACACCACCAGCAGGGACC  
GCATGACCTCTGTGGCTCTCTACGTTTACAACGGCTACAGCGTGTTTTTGTGGGACTAAGAGTGGCAAGCTGA  
AAAAGATTCGGGCCGACGGTCCCCCCCATGGTGGGGTCCAGTACGAGATGGTCTCTGTGCTCAAGGACGGAAGCC  
CCATCTCCGGGACATGGCCTTCTCCATTGATCAGCGCTACCTGTACGTATGTCTGAGAGACAGGTACCAAGG  
TCCCCGTGGAGTCATGTGAGCAGTATACGACTTGTGGGGAGTGCCTGAGCTCTGGGGACCCCTCACTGTGGCTGGT  
GTGCCCTGCACAACATGTGCTCCCGCAGGGACAATGCCAACAGGCCTGGGAACCTAATCGATTTGCTGCCAGCA  
TCAGCCAGTGTGTGAGCCTTGCAGTGCATCCAGCAGCATCTCAGTATCTGAGCACAGCCGGTTGCTTAGCCTGG  
TAGTGAGTGATGCTCCTGATCTATCTGCGGGTATCGCCTGTGCCTTTGGGAACCTGACAGAGGTGGAGGGCAGG  
TGTCCGGGAGCCAGGTATCTGCATCTCACCTGGGCCCCAAGGATGTCCCTGTCTCATCCCGCTGGATCAAGACTGGT  
TTGGGCTGGAGCTACAGCTGAGGTCCAAGGAGACAGGAAGATATTTGTGAGCACCGAGTTCAAGTTTTACAAC  
GCAGTGGCCACCAACTGTGCCTGTCTGTGTCAACAGCGCCTTCCGCTGCCATTGGTGCAGTACCGCAACCTCT  
GCACTCATGACCCACCACCTGTCTCTTCCAGGAGGCGGATCAATATTTAGAGGACTGTCCCCAGCTGGTG  
CCACAGAGGAGATCTTGATTCCAGTCGGGGAGGTAAAGCCCAATCACCTTAAGGCGCGAAATCTGCCCCAGCCGC  
AGTCCGGCCAGCGAGGCTATGAGTGTGTCTCAACATACAAGGAGCCATCCACCGGGTCCCCGCTCTGCGCTTCA  
ACAGCTCCAGCGTTCAAGTGTGAGAACAGCTCGTACCAGTATGATGGCATGGACATCAGCAATCTGGCCGTGGATT  
TCGCTGTGGTGTGGAACGGCAATTCATCATTGACAACCCTCAGGACCTGAAAGTCCATCTCTACAAGTGTGCAG  
CCCAGCGGGAGAGCTGCGGCCCTCTGCCTCAAGGCCGACCGGAAGTTTGAGTGTGGCTGGTGCAGCGGCGAGCGCA  
GGTGCACCTCCACCAGCACTGTACCAGCCCTTCCAGCCCTGGCTCGACTGGTCCAGCCACAATGTCAAGTGTCT  
CCAACCTCAAATCACCGAGATTTTGACGGTGTCTGGACCGCGGAAGGAGGGACGCGAGTGACCATCCATGGCG  
TGAACCTGGGTCTGGACTTCTCCGAGATCGCCACCATGTGCAGGTGGCTGGGGTGGCCTGCACGCCCCCTCCAG  
GGGAATACATCATCGCTGAGCAGATTGTCTGTGAGATGGGCCATGCCCTCGTGGGAACCACTCCGGGCCAGTAC  
GCCTGTGATTGGCGAGTGTAAAGCCAGAGTTTATGACGAAGTCCCATCAGCAGTACACCTCGTGAACCTTCTG  
TGCTGTCACTCAACCCAATCCGAGGTCCCGAGTCAGGAGGCACTATGGTGACCATTACCGGCCATTACCTTGGGG  
CTGGGAGCAGCGTGGCAGTCTACCTGGGCAACCAGACCTGCGAGTTCTACGGGAGGTCAATGAGTGAGATCGTGT  
GTGTCTACCCCCATCATCCAATGGCCTTGCCCCGTCCCTGTTTTCTGTGAGTGTGACCGAGCCCATGTGGATA  
GCAACCTGCAGTTTGAGTACATAGATGACCCTCGGGTCCAGCGCATCGAGCCAGAGTGGAGCATTGCCAGTGGCC  
ACACACCCCTGACCATCACAGGCTTCAACCTGGATGTCAATCAGGAGCCAAGGATCCGAGTCAAATTAATGGCA  
AAGAATCTGTCAATGTGTGTAAAGTTGTGAACACAACCACCTCACCTGCCTGGCACCCCTCTTGACCACGGACT  
ACCGCCCTGGCCTGGACACTGTGGAACGCCAGATGAGTTTGATTGTCTTTAACAATGTCCAATCCTTGCTAA

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**FIGURE 560B**

TTTACAACGACACCAAGTTTATCTACTACCCCAACCCGACCTTTGAACTGCTTAGCCCTACTGGAGTCTTGGATC  
AAAAGCCAGGATCGCCCATCATTCTGAAGGGCAAAAACCTCTGCCCTCCTGCCTCTGGAGGGGCCAAACTCAACT  
ACACTGTGCTCATCGGAGAGACCCCTTGTGCTGTCAACCGTATCTGAGACCCAGCTTCTCTGCGAGCCTCCCAACC  
TCACCGGGCAGCACAAGGTCATGGTTACGTGGGCGGGATGGTGTCTCGCCTGGCTCGGTGAGTGTATCTCAG  
ACAGCTTGTGACCCTGCCAGCCATCGTTCAGCATCGCGGGCGGGCAGCCTCCTCCTCATCATCGTCATCATCG  
TCCTCATTGCCTACAAGCGCAAGTCTCGAGAAAATGACCTCACTCTCAAGCGGCTGCAAATGCAGATGGACAATC  
TGGAGTCCCGTGTGGCCTTGGAGTGCAAGGAAGCTTTTGTGAGCTCCAGACGGATATCAATGAGTTGACCAAGT  
ACCTGGACCGCTCAGGAATCCCTTACCTGGACTATCGTACCTACGCTATGCGAGTCTGTTCCTCCGGGCATCGAGG  
ACCACCCCGTCTGCGGGAGCTGGAGGTACAAGGAAACGGGCAGCAGCAGTGGAGAAGGCCCTGAAGCTCTTTG  
CCCAGCTCATCAACAACAAGGTGTTCTGTGACCTTCATCCGCACCCTGGAGCTGCAGCGCAGTTTCTCCATGC  
GCGACCGGGGCAACGTGGCTTCGCTCATCATGACCGGCTGCAGGGCCGCTGGAATATGCCACTGATGTCTCA  
AGCAGCTGCTCTCTGACCTCATCGATAAGAACCTGGAGAACAAGAACCCCAAGCTGCTACTCCGGAGGACAG  
AGTCTGTGGCTGAAAAGATGCTGACCAATTGGTTTCGCTTCTCTGACACAAGTTCCTAAAGGAGTGCAGGGG  
AGCCACTCTTCATGCTATACTGTGCCATCAAGCAGCAGATGGAGAAGGGCCCCATTGATGCCATCACGGGCGAGG  
CCCGCTACTCCCTGAGCGAGGACAAGCTCATCCGGCAGCAGATCGAGTACAAGACCCTGATCCTGAACTGCGTCA  
ACCCTGACAACGAGAACAGTCCAGAGATCCAGTGAAGGTGTTAACTGTGACACCATCACACAGGTCAAGGAGA  
AGATTCTTGATGCGGTGATAAGAATGTGCCCTATTCAGCGGGCCGAGGGCAGTGGACATGGACTTGGAGTGGC  
GCCAAGGCCGGATCGCCCGGGTCGTGCTGCAAGATGAGGACATCACCACCAAGATTGAGGGTGACTGGAAGCGGC  
TCAACACACTGATGCATTATCAGGTGTCAGACAGGTGCTGGTGGTGGCTCTGGTCCCCAAACAGACCTCCTCTACA  
ACATCCCTGCCTCTGCCAGCATCTCCCGGACGTCCATCAGCAGATACGGTGACTCCTCCTTCAGGTATACGGGCA  
GCCCCGACAGCCTGCGGTCCCGGGCCCCGATGATACCCAGACCTGGAAAGTGGGGTCAAGGTGTGGCATCTGG  
TGAAGAACCATGACCACGGTGACCAGAAGGAGGGTGACCGGGGCAGCAAGATGGTGTCCGAGATCTACCTGACCC  
GGCTACTGGCCACCAAGGGCACCTGCAGAAGTTTGTGGACGACTTGTGAGACCTTGTTCAGCACTGTGCACC  
GGGGCAGCGCTCTCCCCCTGGCCATCAAGTACATGTTTGATTCTCTAGATGAGCAGGCAGACAGGCACAGCATCC  
ATGACACAGATGTGCGGCACACCTGGAAAAGCAACTGCCCTCCTGCGCTTCTGGGTGAACGTGATTAAGAACC  
CCCAGTTGCTGTTTGACATCCACAAGGGCAGCATCACGGACGCTGCTCTCTGTGGTGGCCAGACCTTCATGG  
ACTCTTGTTCACGTGAGACACCGGCTGGGCAAGGACTCCCCCTCCAACAAGCTGCTCTATGCCAAGGACATCC  
CCAGCTACAAGAGCTGGGTGGAGAGATACTACGCAGACATCGCCAAGCTCCCAGCCATCAGTGACCAGGACATGA  
ATGCCTACCTCGCCGAGCAGTCCCGCTGCACGCCGTGGAGTTCAACATGCTGAGTGCCCTCAATGAGATCTACT  
CCTATGTCAGCAAGTATAGTGAGGAGCTCATCGGGGCCCTAGAGCAGGATGAGCAGGCACGGCGGACGGCTGG  
CTTATAAGGTGGAGCAGCTCATTAAATGCCATGTCCATTGAGAGCTGAGAGGAGGAGCCTCGCATTCTGGGAAGA  
GGGACCTGTCCAAGCTGTCACTGGGAGTCTCAGATGGAAGGACAAGTGATGGGGATCAGGCCCCAGAGCTTGC  
TGTCCCTGAGACCCCATCCTGGGGAGAGGGGAGGACTCCTCTCCCTACGCCAGCCAAGTTTCGTATAGCCAGT  
TCCAGCTGGGAGAGACAGTGGGCGTCTCCATCCTCAGTGAGAACACCAGAGAACCCGGGGCCGGGAGAAGGTGG  
TTCTTCAAGCCGAGAGGCACGAGCTGGGGACAGTCTGCCTCTGTGACTGCTGCTTTGCATGAAACTCATTTGA  
TGTATATTGGGGAAATAATGAGAACTTTATTTAATTTTTTAAGAAAAAGGGAAAAAACAGAAATAAAACAAAA  
AGCCGCCCTGTTAATCCAAATTAAAAA

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**FIGURE 561**

ACTGAATTCAACAATTATTTATTGAGTGTCTATTATGTGCTAGATACTGAGACACATCAGAGAACAAAACCAAAA  
GCCCTGCCCTCGTCGGGCTTACAGTCTAGCACTTACTGCCAGTTAACCTGGAGGCTACCTGGAACCCCGGGCAAG  
TCACCGCACCTCTGTGCCTCGGTCTCAGCTGCCTAATGGGAGAATAAGCAGACCTGGCTCAGACATGAATCATG  
TGCTTGGTGTACTGCAGATGCCAACTGCATCCCCATAACCCACCACCCAGACAGTAGATAGGGCTGGAAGTTGA  
TTTTTAATGATCAAGTACAATGGAGGGAGGGCAGAGGGGCTAAGCCTAGCTGTCTGGGGTGCTGTGGTGGTGGTG  
GGCTGGCTACACAACTGTTGCTGCTGCTGCTGCTTCTTGGTGGCTGCCTTGCTGGCGAGGTCCTTGGCCTTCTC  
TGTAAGCTGCCAGTGCTGTCTCCTTTGCCTTCTCCTTGGCTTCCTTGGCTGTCTCAACAAGTGTTTTGAAGGGGC  
CTCGCCTTGCAGCTTTGCCAAGATATATTCAAAACCCCTTCATAGTCTTGGTCACATTGCTTTTGAACCAGGCAAG  
ACCAAATTCCTGGACAGCTCTGGAGACACCAATAAGCTAGAGGAGACCCAGGCTTCCCGGCGGATTTGGTCCG  
GCCACTGTTGTCAGAGTTCACACAGTAAACACATCGTTTCTCCACCACC

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**FIGURE 562**

TTTCGGCCGGAACCGCCATCTTCCAGTAATTCGCCAAAATGACAAACACAAAGGGAAAGAGGAGAGGCACCCGAT  
ATATGTTCTCTAGGCCTTTTAGAAAACATGGAGTTGTTTCCTTTGGCCACATATATGCGAATCTATAAGAAAGGTG  
ATATTGTAGACATCAAGGGAACGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAA  
GAGTCTACAATGTTACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGA  
GAATTAATGTGCGTATTGAGCACATTAAGCATTCTAAGAGCCGAGATAGCTTCCTGAAACGTGTGAAGGAAAATG  
ATCCTCCACCCAGAGAAGCACACTTTGTGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCCCTATG  
AATTCATGGCATAATAGGTGTT

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**FIGURE 563**

MTNTKGKRRGTQYMF SRPFRKHGVVALATYMQIYKKGDIVDIKGMGTVQKGMPHKCYHGKTGRVYNVPQHAVGIV  
VNTQVKGKILAKRINVRIEHIKHSKS

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**FIGURE 564**

ATGAAGCTCTTATCTTTGGTGGCTGTGGTCGGGTGTTTGCTGGTGCCCCAGCTGAAGCCAACAAGAGTTCTGAA  
GATATCCGGTGC AAATGCATCTGTCCACCTTATAGAAACATCAGTGGGCACATTTACAACCAGAATGTATCCCAG  
AAGGACTGCAACTGCCTGCACGTGGTGGAGCCCATGCCAGTGCCCTGGCCATGACGTGGAGGCCTACTGCCTGCTG  
TGGGAGTGCAGGTACGAGGAGCGCAGCACCAACCACCATCAAGGTCATCATTGTCATCTACCTGTCCGTGGTGGGT  
GCCCTGTTGCTCTACATGGCCTTCCTGATGCTGGTGGACCCTCTGATCCGAAAGCCGGATGCATATACTGAGCAA  
CTGCACAATGAGGAGGAGAATGAGGATGCTCGCTCTATGGCAGCAGCTGCTGCATCCCTCGGGGGACCCGAGCA  
AACACAGTCCTGGAGCGTGTGGAAGGTGCCAGCAGCGGTGGAAGCTGCAGGTGCAGGAGCAGCGGAAGACAGTC  
TTCGATCGGCACAAGATGCTCAGCTAG

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**FIGURE 565**

MKLLSLVAVVGCLLVPPAEANKSSDIRCKCICPPYRNISGHIYNQNVSQKDCNCLHVVEPMFVPGHDVEAYCLL  
CECRYEERSTTTIKVIIVIYLSVVGALLLYMAFLMLVDPLIRKPDAYTEQLHNEEENEDARSMAAAAASLGGPRA  
NTVLERVEGAQQRWKLQVQEQRKTVFD RHKMLS

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**FIGURE 566**

ACCTGCACTGACTTTTTTCTCCTTTTGGAGGGAGAGCAGAGACCATGTCTGACATAGAAGAGGTGGTGGAAGAGT  
ACGAGGAGGAGGAGCAGGAAGAAGCAGCTGTTGAAGAGCAGGAGGAGGCAGCGGAAGAGGATGCTGAAGCAGAGG  
CTGAGACCGAGGAGACCAGGGCAGAAGAAGATGAAGAAGAAGAGGAAGCAAAGGAGGCTGAAGATGGCCCAATGG  
AGGAGTCCAAACCAAAGCCCAGGTCGTTTCATGCCCACTTGGTGCCCTCCCAAGATCCCCGATGGAGAGAGAGTGG  
ACTTTGATGACATCCACCGGAAGCGCATGGAGAAGGACCTGAATGAGTTGCAGGCGCTGATCGAGGCTCACTTTG  
AGAACAGGAAGAAAGAGGAGGAGAGCTCGTTTCTCTCAAAGACAGGATCGAGAGACGTCGGGCAGAGCGGGCCG  
AGCAGCAGCGCATCCGGAATGAGCGGGAGAAGGAGCGGCAGAACCGCCTGGCTGAAGAGAGGGCTCGACGAGAGG  
AGGAGGAGAACAGGAGGAAGGCTGAGGATGAGGCCCGGAAGAAGAAGGCTTTGTCCAACATGATGCATTTTGGGG  
GTTACATCCAGAAGXXXXXXXXXACAGAGCGGAAAAGTGGGAAGAGGCAGACTGAGCGGGAAAAGAAGAAGA  
TTCTGGCTGAGAGGAGGAAGGTGCTGGCCATTGACCACCTGAATGAAGATCAGCTGAGGGAGAAGGCCAAGGAGC  
TGTGGCAGAGCATCTATAACTTGGAGGCAGAGAAGTTCGACCTGCAGGAGAAGTTCAAGCAGCAGAAATATGAGA  
TCAATGTTCTCCGAAACAGGATCAACGATAACCAGAAAGTCTCCAAGACCCGCGGGAAGGCTAAAGTCACCGGGC  
GCTGGAAATAGAGCCTGGCCTCCTTCACCAAAGATCTGCTCCTCGCTCGCACCTGCCTCCGGCCTGCACTCCCC  
AGTTCGCGGGCCCTCCTGGGCACCCAGGCAGCTCCTGTTTGGAAATGGGGAGCTGGCCTAGGTGGGAGCCACCA  
CTCCTGCCTGCCCCACACCCACTCCACACCAGTAATAAAAAGCCACCACACACTG



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**FIGURE 567**

CCAGCCTTGCCCGGCAGAGGACTCTGGAGGATGAGGAGGAACAGGAGCGCGGAXGGCGGCGGCACCGCAACCTG  
AGCTCCACCACGGACGATGAGGCTCCCAGGCTCAGCAGAATGGAGACCGGCAGCCTCTGCTTCTGAGAGACTACC  
GAGCGTGGAAGAAGCAGAGGTGCCAAGCCACTGCCCCAGCCTCCAAAGATGAGGACGAGGACATCCAGAGCAT  
CCTCAGAACACGGCAGGAGCGGAGGCAGAGGCGGCAGGTGGTGGAGGCTGCACAGGCCCCATCCAGGAGAGGCT  
GGAGGCAGAGGAGGGGAGGAACAGCTTGAGCCCTGTGCAGGCCACACAGAAACCCCTAGTCTCCAAGAAGGAAC  
GGAAATCCCACCTCGCCGAGACTGAGTCGGGAACAGCGGGCCCCCTGCGCTGGAGGAGGAGAGCTTGGTGGGCA  
GGGAGCCAGAAGAGAGGAAGAAAGGGGTTCCAGAAAAGTCCCCAGTCTTGAGAGAAATCCTCCATGCCAAAGAAGA  
CGGCACCTGAAAAGAGCCTGGTCTCCGATAAAACCTCCATCTCTGAGAAGGTGCTGGCCTCAGAGAAGACATCTC  
TATCAGAGAAGATAGCAGTGTGAGAGAAAAGAAACAGCTCAGAGAAGAAGTCTGTTCTAGAAAAAACAGTGTCT  
CTGAGAAGTCGCTGGCCCCAGGGATGGCACTGGGCTCAGGAAGGAGGCTGGTGTCTGAGAAAGCTTCCATCTTTG  
AGAAGGCACTGGCCTCAGAGAAGAGCCCAACTGCAGATGCTAAGCCGGCCCCAAGAGGCCACAGCCTCAGAGCA  
GCCCCTGCGCAGGAGCCGCCAGCCTCTGGGGGAAGCCAGCCACCACCAAGGAGCAGAGAGGAAGGGCCCTCCC  
TGGGAAGAACCTGCCCTCTTTGGCAGAGCAGGGGGCTTACAGCCCTCCGACTGTGGCCTCCCGCTCCCACCCGT  
CACACTCCAGGTGAAAATCCCCAGCAAGGAGGAAGAGGCAGATATGTCTCACCACACAGCGAACCTACAGCAG  
CTCCCTCAAACGCTCCAGCCCCAGGACCATCTCCTTTTCGGATGAAACCAAGAAAGAAAACCTCGGAAACAACCT  
AACTCGCAGTGCCAGCATGAAGCTCCCAGACAACACAGTGAAGTTGGGAGAGAAGCTGGAGAGATACCACACGGC  
CATACGGAGATCAGAACTGTCAAGTCTCGGGGTCTGCCTGCACTGAGTTATTCGTGGCTCCTGTGGGTGTAGC  
CAGCAAGCGCCACCTCTTTGAGAAGGAAGTGGCGGGCCAGAGCCGAGCAGAACCAGCCTCCAGCCGGAAGGAGAA  
CTTGAGGCTCTCAGGGGTGTGACATCAAGGCTCAACCTGTGGATCAGCAGGACCCAGGAATCTGGAGATCAGGA  
CCCCCAGGAGGCACAGAAAGCATCATCTGCAACCGAGAGGACTCAGTGGGGACAGAAATCTGACTCCTCGCTGGA  
CGCTGAGGTGTGACAAGCCCCGCCAAGACAGACCTGCAAGTCTTCGTCTCAAGGGACCTCCCTCATGCCAGGCCC  
CTGCCCTTCACAGCAGCACCCCTTTCCTCTCATTTGTCCCTGTTCCCTTTTTGCCTGTGGATCTGTTTGGCCAGGGT  
CCCTGGGGTCAGGAATATTTGCAAGACTCAGCCAGCTCCTTCCCAGCCCAGCCTCTTGGGGCTGGGACTTTCTCA  
CCCTGCGGCAGGCACAACAGATGCTGGGACCCAGTCTCTGCCAGGTACAGCACAAGTGCACATCAGCACTATG  
GGGCTATGTCTGCCCAGAGACCTCTGCTCCTTCTGCTCACATCCACAGTCAGGGCACGGCGCCCCCTCAAGAA  
CTCCAGAGTCACCTGTCTCATCGGCTCCCAGCAAGTGCCCTTTGTCTATGATGTCCCCCTTCTCTGAGGCCTGG  
ACCCACCCATCTTTGTCCCTGGGGCTGCTCCCAGCCACTGAGGCCCGCTCTGGCCAGGGGAGAAGGAGCTGCCG  
TGCGTCTTCCCTGTGCCCCGTCTCCCTGCTTGGTTCTCCCTCCCTTCCCTGGCCGGCTGCCATGGCCAGGAGCT  
AAGTGCCTTTTTGTGTGCAACCACTTACCCCTTCTCTGAAAAACCTGTTCTCAGGAAGGATCTGATAAACTCATT  
TACTCTCAGGTGTAAGAGACTGATGAGACCTTAGAAGCGAATTCCCTCTCTGGAGGCCCTTGCTTTCTAGCAGAGTC  
ACCTGAAGTGTGTGAGGAGGATCATATTTTCCCTCATCCCCCTCTTCTCACATTAAGGTGGTGGCTTGCCACTC  
AGCAGTCTAGCTTGGTGACTGGGAAGTCCACATACAGGGCCAGGCCTACCCTCCTTCCCCACAAGCCCCCTCC  
AACCCCCACCCCATGCTCTGGACCTCATGGCTCCTATGAGCTTGGAGCATGGTGAACCATCAGAGAATCTAGAA  
CCAACCAAGCTAGGAACATCAGCCTGGTGCCTGTAAACCCCTTAAAGCTGTGGTTTACAACCTTTTCAAAAATTTA  
AATCATTAG

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**FIGURE 568**

ATTCAAGGCCTGGGGGAGCTGCGGTTCCGAGAAGCGGCAGACGGCAGCCAGAAGGCTTGGGCTGTTGAGTAAGCA  
GCCCCCTCTCAGTCCCGGCCCTCCCCGCCCCGCGCCCTGCGCCTCCAGTGAGTGAAGGCTGAGCCCCGCTGCGGCC  
CGCCCCCGGGCCCTGCGGGAGCTGGTGCGCGGCGCGGAGGGGAGGGCCGGCCAGGGTAGGAATGCGCTGCGGGC  
GGGCGGCGCAGGAGGCGAGCGGCGGAACATGTAAGGGCACATCCCGCGAGCTGCCGCCAGCGCGCAGACAGAGC  
CCAGGGGAGCAAGAGAACGGGCGGGCGGTGGGGCTCACGGCCTAGGGAGGCGCGGAGGCATCTGGCAGAGGCGGG  
TCGGGCTGGGCCAGCTGGGGTAGAGCGGAGGAGCGGGTGCCGGCTGAAGCGGGCGGTGGGCGCGAGCGCGCTG  
GGGGACCGACACCACCTCACCGGCAGCCGGGTGCTGAGGGCCGCGGTGTGGGTGCGCGGAGCAGTCAGGGCGCA  
GGTGGGCAGCGCGCACGGCTGCCAGCCCGGGCGCCAGAATCTGCGCTGCGGGGCGAGAGGGGCGCCGCGCC  
CGCCGCAGCCTGGAGCTTTCCGCGAACCTCGGGGCGCCCATGACGGCGGCGGCGACGGCTACCGTGCTCAAGGAG  
GGCGTGCTGGAGAAGCGCAGCGGCGGGCTGCTGCAGCTGTGGAAGCGGAAGCGCTGCGTCCTCACCGAACGCGGG  
CTGCAGCTCTTCGAGGCCAAGGGCACGGGCGGCCGCGCCCAAGGAGCTCAGCTTCGCCCGCATCAAGGCCGTGGAG  
TGCGTGGAGAGCACCGGGCGCCACATCTACTTCACGCTGGTGACCGAAGGGGGCGGCGAGATCGACTTCGCTGC  
CCCCTGGAAGATCCCGGCTGGAACGCCCAGATCACCTAGGCCCTGGTCAAGTTCAAGAACCAGCAGGCCATCCAG  
ACAGTGGGGGCGGCGAGAGCCTCGGGACCGGGACCCTCGTGTCCTAAACCACCGGGCGCACCATCTTTCTTCA  
TGCTACCCACCACCTCAGTGCTGAGGTCAAGGCAGCTTCGTTGTTCCCTCTGGCTTGTGGGGCACGGCTGTGCT  
CCATGTGGCAAGGTGGAAGGAATGGACGAGCCCTGGGAGGAGGGCAGAAGGCTACGCAGGGCTGAGGATGAAGAT  
GCAGCCCCCTGGATGGTCCCAGACTCTCAGGACATGCCAGCTCAGGGGCTTCGAGCCACAGGCCTGGCCTCATAT  
GGCATGAGGGGAGCTGGCATAGGAGCCCCCTCCCTGCTGTGGTCCCTGCTCCTGCTCCTGCAGACTGCTCTTAGC  
CCCCTGGCTTTGTGCCAGGCCTGGAGGAGGGCAGTCCCCCATGGGGTGCCGAGCCAACGCCTCAGGAATCAGGAG  
GCCAGCCTGGTACCAAAAGGAGTACCCAGGGCCTGGTACCCAGGCCCACTCCAGAATGGCCTCTGGACTCACCTT  
GAGAAGGGGGAGCTGCTGGGCCTAAAGCCCACTCCTGGGGGTCTCCTGCTGCTTAGGTCTTTTGGGACCCCCAC  
CCATCCAGGCCCTTTCTTTGCACACTTCTTCCCCACCTCTACGCATCTTCCCCCACTGCGGTGTTTCGGCCTGA  
AGGTGGTGGGGTGAGGGGGGGTTTGCCATTAGCATTTTCATGTCTTTCCCAA

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**FIGURE 569**

ATGCGCGCGGCGGCGGCGAGCTGGTGCGGCCTCCGGGCTGCCGGGTCCAGTGGCACAAAGGATTAAAGGAAGCGTTA  
GTGGATACGCTCACC GG GATCCTATCCCCAGTACAGGAGGTGCGGGCGGGCTGCTGAAGAACAGATTAAGGTGCTG  
GAGGTGACGGAGGAATTTGGTGTTCACTTGGCAGAACTGACTGTAGATCCCCAGGGGGCACTGGCAATCCGTACG  
CTGGCATCAGTCATCTTGAAACAATATGTGGAGACTCACTGGTGTGCCCAATCAGAGAAATTTAGGCCTCCTGAA  
ACTACAGAAAGGGCAAAAATTGTTATCCGGGAGCTATTGCCCTAATGGGTTGAGAGAATCGATAAGCAAAGTGCGC  
TCCAGTGTGGCCTATGCAGTGTGAGCCATTGCCCACTGGGACTGGCCTGAAGCTTGGCCCCAACTCTTCAACCTG  
CTCATGGAGATGTTGGTGAGCGGAGACTTAAATGCCGTCCATGGAGCCATGCGTGTGCTGACAGAATTCACCTCGT  
GAAGTTACAGACACACAGATGCCACTTGTGTCTCTGTCATTCTCCCAGAGATGTATAAGATCTTCAACCATGGCT  
GAGGTGTATGGTATTTCGAACCCGTTCCCGAGCCGTGGAGATTTTTACCCTTGTGCCCATATGATCTGTAACATG  
GAGGAGCTGGAAGGGTGACGCCAAAGTCCTGATCTTTCCCGTGGTACAGCAGTTCACAGAGGCCTTTGTTTCAG  
GCCCCCAGATACCAGATGGCCCCACATCTGACAGTGGGTTAAGATGGAGGTCCTAAAGGCAGTGACAGCCCTA  
GTGAAAACTTCCCAAAGCACATGGTGTCTCCATGCAGCAGATTCTGCCTATTGTTTGAACACCCCTAACCGAG  
AGTGCAGCTTTTTATGTGAGGACAGAAGTAAATTACACAGAAGAAGTAGAAGATCCTGTGGATTCTGATGGTGAA  
GTCTTGGGCTTTGAAAATCTCGTCTTTAGCATTTTTGAATTTGTCCATGCTCTACTAGAAAATAGCAAATTCAAA  
AGCACTGTTAAGAAAGCCTTGCCCTGAATTGATTTATTATATTATCCTGTACATGCAAATCACTGAGGAGCAGATT  
AAAGTATGGACAGCCAAACCCCAACAATTTGTAGAAGATGAAGATGATGATACATTCTCCTATACTGTTAGAATA  
GCAGCTCAAGACTTGTGTCTGGCTGTGGCCACAGATTTCAGAAATGAAAGTGCAGCAGCCCTGGCTGCTGCAGCC  
ACTCGACATTTACAAGAAGCTGAGCAAACCAAAAACAGTGGCACTGAGCACTGGTGGAAGATCCATGAGGCATGC  
ATGCTTGCCCTAGGCTCAGTGAAGGCCATCATCACTGACAGTGTGAAAAATGGCAGGATTCAATTTGACATGCAT  
GGGTTCTTGACCAATGTCATCCTTGACAGCCTCAACCTCTCAGTGTCTCCTTTCTCTTGGGCCGGGCACTTTGG  
GCTGCCAGTCGGTTCACTGTTGCTATGTCCCCTGAATGATCCAGCAGTTCCTACAGGCAACAGTTAGTGGTCTT  
CAGGAGACACAGCCCCCATCAGTTCGAATTTCTGCAGTGAGAGCCATCTGGGGTTATTGTGACCAACTGAAAGTC  
TCAGAGAGTACCCACGTGCTCCAGCCCTTCTCCAGCATCCTTGATGGCTTAATTCACCTAGCAGCCAGTTC  
AGCTCAGAGGTCTCAACCTGGTGATGGAGACCCTGTGCATCGTTTGTACAGTAGACCCCGAATTCACAGCAAGC  
ATGGAAGCAAAATCTGCCCTTCACCATCGCCATTTTCTTAAAGTACAGTAATGATCCCGTCGTCGCCTCACTG  
GCTCAGGACATCTTCAAGGAGCTGTCCAGATTGAAGCCTGTCAGGGCCCAATGCAAATGAGGCTGATTCCCACT  
CTGGTCAGCATAATGCAGGCCCCAGCAGACAAGATTCTGCAGGGCTTTGTGCGACAGCCATTGATATCCTGACA  
ACAGTAGTACGAAATACAAAGCCTCCCTTTCCAGCTTCTCATCTGCCAAGCTTTCCCTGCTGTGGCACAGTGT  
ACCCTTCACACAGATGACAATGCCACCATGCAGAATGGCGGAGAGTGCTTGCGGGCCTATGTGTCACTGACCCTG  
GAACAAGTAGCCAGTGGCATGATGAGCAGGGCCACAATGGACTGTGGTATGTGATGCAAGTGGTGAGCCAGCTC  
CTGGACCCCGCACCTCAGAGTTCACTGCGGCCTTTGTGGGCCGCCTTGTTCACCCCTCATCTCCAAGGCAGGG  
CGGGAACCTCGGGGAGAATCTAGACCAGATTCTTCGTGCCATCCTCAGTAAGATGCAGCAGGCAGAGACGCTCAGT  
GTCATGCAGTCCCTGATCATGGTGTTTCGCTCATCTGGTGACACTCAGCTAGAACCTCTCTTGGAGTTCTGTGT  
AGCCTCCCAGGACCTACTGGCAAACCTGCTCTAGAGTTTGTGATGGCTGAGTGGACAAGCCGACAGCACCTGTTT  
TATGGACAGTATGAAGGCAAAGTCAGCTCTGTGGCACTCTGTAAGCTGCTCCAGCATGGCATCAATGCAGATGAC  
AAACGGCTACAGGATATCCGTGTGAAGGGAGAGGAGATCTACAGCATGGATGAGGGCATCCGCACCCGCTCTAAG  
TCAGCCAAAACCCAGAACGCTGGACAAACATTCTTTGCTGGTCAAGATCCTAAAGCTGATCATCAACGAGCTC  
TCCAACGTCTAGGAGGCTAATGCCGCTCGCCAGGCCACTCCTGCAGAGTGGAGTCAAGATGACTCCAATGATATG  
TGGGAGGACCAGGAGGAGGAAGAGGAGGAGGAGGATGGTTTAGCTGGCCAACCTTTATCTGACATTCTTGCT  
ACAAGTAAATATGAGGAGGATTACTACGAGGATGATGAGGAAGATGACCCTGATGCCCTGAAGGATCCTCTCTAT  
CAGATTGATCTGCAGGCATATCTCACAGATTTCCTCTGCCAGTTTGTCTCAGCAGCCCTGCTACATAATGTTTTCA  
GGCCACCTTAATGACAATGAGAGGCGAGTTCTACAGACCATCGGCATCTTAA

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**FIGURE 570**

MAAAAAAGAASGLPGPVAQGLKEALVDILTGLSPVQEVRAAAEEQIKVLEVTEEFVHLELTVDPPQALAIRQ  
LASVILKQYVETHWCAQSEKFRPPETTERAKIVIRELLPGLRESISKVRSSVAYAVSAIAHWDWPEAWPQLFNL  
LMEMLVSGDLNAVHGAMRVLTEFTREVTDITQMLVAPVILPEMYKIFTMAEVYGIRTRSRAVEIFTTCAHMICNM  
EELEKGAAKVLIFPVVQQFTEAFVQALQIPDGPTSDSGFKMEVLKAVTALVKNFPHMVSSMQQILPIVWNTLTE  
SAAFYVRTEVNYTEEVDPVDSGGEVLGFENLVFSIFEVHALLNSKFKSTVKKALPELIYYIILYMQITEEQI  
KVWTANPQQFVEDEDDDTFSYTVRIAAQDLLLLAVATDFQNESAAALAAAATRLQEAQTKNSGTEHWWKIHEAC  
MLALGSVKAIITDSVKNGRIHFDMHGFLTINVILADLNLSVSPFLLGRALWAASRFTVAMSPELIQQFLQATVSGL  
HETQPPSVRISAVRAIWGYCDQLKVSESTHVLQPFPLPSILDGLIHLAAQFSSEVLNLVMTLCIVCTVDPEFTAS  
MESKICPFTTIAIFLKYSNDPVVASLAQDIFKELSQIEACQGPQMRLIPTLVSIMQAPADKIPAGLCATAIDILT  
TVVRNTKPPLSQLLICQAFPAVAQCTLHTDDNATMQNGGECLRAYVSVTLEQVAQWHDEQGHNLWYVMQVVSQ  
LDPRTSEFTAAAFVGRVSTLISKAGRELGENLDQILRAILSKMQQAETLSVMQSLIMVFAHLVHTQLEPLLEFLC  
SLPGPTGKPALEFVMAEWTSRQHLYGQYEGKVSSVALCKLLQHGINADDKRLQDIRVKGEEIYSMDGIRTRSK  
SAKNPERWTNIPLLVKILKLIINELSNVMEANAARQATPAEWSQDDSDNMWEDQEEEEEEEDGLAGQLLSDILA  
TSKYEEDYEDDEEDDPDALKDPLYQIDLQAYLTDFLCQFAQQPCYIMFSGHLNDNERRVLQTIGI

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**FIGURE 571**

AGTCAAGATGGAGGAGTACGCGGAGAGCCTTGCCCATGGCGAATTGTGGATGACTGTGGTGGGGCCTTTACGAT  
GGGTACCATTGGTGGTGGTATCTTTCAAGCAATCAAAGGTTTTTCGCAATTCTCCAGTGGGAGTAAACCACAGACT  
ACGAGGGAGTTTGACAGCTATTAAAACCAGGGCTCCACAGTTAGGAGGTAGCTTTGCAGTTTGGGGAGGGCTGTT  
TTCCATGATTGACTGTAGTATGGTTCAAGTCAGAGGAAAGGAAGATCCCTGGAACTCCATCACAAGTGGTGCCTT  
AACGGGAGCCATACTGGCAGCAAGAAATGGACCAGTGGCCATGGTTGGGTGAGCCGCAATGGGTGGCATTCTCCT  
AGCTTTAATTGAAGGAGCTGGTATCTTGTGACAAGATTTGCCTCTGCACAGTTTCCCAATGGTCTCAGTTTGC  
AGAAGACCCCTCCAGTTGCCTTCAACTCAGTTACCTTCCTCACCTTTTGGAGACTATCGACAATATCAGTAGGA  
CTTCTTTCTTAGGATTTCTTTAACAGAACGAGTTGTGGTTCGAGAAGGATTTCAGAAGATCAAGTTACAGTCTGT  
TTTTAAAACCATAGGTGGGACAGCTATGGCCAATAGGCTATAAAGAGACATTTAGCACTTTTTTCTATTTAAAGG  
AACAAGCGGGGAAGGGTGCTAAAAGATAATACGTTTATTTATTCACACTTGAATTGCATTTGTGATCAAAATAAA  
TGTTTAAATCGCTAAAGGAAAATACAGTAAGTGCTTGAAAGATGAAGGACCAAAAGGCCAAAAACAGTGAAATA  
TGATCATCATCTCTTGCGGACTTCTCTGCCTGGTTTTGTGTGTTCTGTTATTCAAACAATAAAAGCTGGTGGAA  
CTTACTCTTTCTTTTAAGATAAGTTGTAGACTTCGATGTTTTCATGCTCATGTACTTCAAATAATGCATGTTTTAT  
AGTTAGTCCCTCATCACTTGAAGTGACTTCTGAGAATTATGCAGAGTCAACATGGATCATTTACAGTGAGATGC  
TTTATGGATTGAAGGATATGGTAAAATGTTTATAGTTTACTTTGAAAGTAAAATATACTATGCTTTGGTTTTGAG  
GATATTGGATACAAAACCTCTCTTCTTTAGGGCTACTGAGTCTTGATTCTGATCATCAGAAATTTACCAGAAA  
CAACTTGCTTCCAATATACCCAATTCTATATGAAGAATTCATGGAGAGTGACTGGCACTGGAAGAGTTAGTGT  
TTCTTGATGCTTGAAAATAAAGTATGTACTGTTTTGAATGIGTTCCAAGTCTCTGCATAAACGATGTATTTG  
GGGTCTGGTTGGGCCTGGAAAATGGATGAGCACTTCAGAACAGGTCATTTTCTGATATTGGAAGTGACATGTGG  
CCCTATAGGAGGCATGATGTTAGTTAATTACACATTTGCCTACATCTGTGGGAAATGGAGAACAAAGCCATGTGG  
GTACTGTAAACACACGTTTATCTTTTGGCCCAATGCCATACATATGGTAGGCATTTAATTACTGATTGTGTTGG  
ATAATTTGGGAATTTTCGACTGTGGTAAAATATACATAAAATAACTTATTAAAAA

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**FIGURE 572**

MEEYAREPCPWRIVDDCGGAFIMGTIGGGIFQAIKGFRNSPVG VNHRLRGSLTAIKTRAPQLGGSF VAWGGLFSM  
IDCSMVQVRGKEDPWNSITSGALTGAILAARNGPVAMVGSAA MG GILLALIEGAGILLTRFASAQFPNGPQFAED  
PSQLPSTQLPSSPFGDYRQYQ

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**FIGURE 573**

GGCCATGGCGAGCGGCGAGCATTCCCCGGCGAGCGGCGGGCCCGGGCGCGCTGCACTCCGCGCAGGCTGTGGA  
CGTGGCCTCGGCCTCCAACCTCCGGGCTTTGAGCTGCTGCACTTGACCTGGACCTGCGGGCTGAGTTCGGGCC  
TCCAGGGCCCGGCGCAGGGAGCCGGGGGCTGAGCGGCACCGCGGTCTGGACCTGCGCTGCCTGGAGCCCCGAGGG  
CGCCGCGAGCTGCGGCTGGACTCGCACCCGTGCTTGGAGGTGACGGCGGGCGGCTGCGGCGGGAGCGGCCCGG  
CTCGGAGGAGCCGCTGCGGAGCCCGTGAGCTTCTACACGCAGCCCTTCTCGCACTATGGCCAGGCCCTGTGCGT  
GTCCTTCCCGCAGCCCTGCCGCGCCGCGAGCGCTCCAGGTGCTGCTCACCTACCGCGTCGGGGAGGGACCCGG  
GGTTTGCTGGTTGGCTCCCGAGCAGACAGCAGGAAAGAAGAAGCCCTTCGTGTACACCCAGGGCCAGGCTGTCTT  
AAACCGGGCTTCTTCCCTTGCTTCGACACGCCCTGCTGTTAAATACAAGTATTAGCTCTTATTGAGGTCCCAGA  
TGGCTTCACAGCTGTGATGAGTGCTAGCACCTGGGAGAAGAGAGGTCCAAATAAGTTCTTCTCCAGATGTGTCA  
GCCCCATCCCTCCTATCTGATAGCTTTGGCCATCGGAGATCTGGTTTCGGCTGAAGTTGGACCCAGGAGCCGGGT  
GTGGGCTGAGCCCTGCCTGATTGATGCTGCCAAGGAGGAGTACAACGGGGTGATAGAAGAATTTTGGCAACAGG  
AGAGAAGCTTTTGGACCTTATGTTTGGGGAAGGTATGACTTGCTCTTCATGCCACCGTCTTTCCATTGGAGG  
AATGGAGAACCCTTGCTGACCTTTGTACCCCTGCCTGCTAGCTGGGGACCGTCTTGGCAGATGTCATCAT  
CCATGAGATCTCCACAGTTGGTTTGGGAACCTGGTCAACCAACGCCAACTGGGGTGAATTCTGGCTCAATGAAGG  
TTTACCATGTACGCCCAGAGGAGGATCTCCACCATCCTCTTTGGCGCTGCGTACACCTGCTTGGAGGCTGCAAC  
GGGGCGGGCTCTGCTGCGTCAGCACATGGACATCACTGGAGAGGAAAACCACTCAACAAGCTCCGCGTGAAGAT  
TGAACCAGGCGTTGACCCGGACGACACCTATAATGAGACCCCTACGAGAAAGGTTTCTGCTTTGTTTCATACCT  
GGCCCACTTGGTGGGTGATCAGGATCAGTTTGACAGTTTCTCAAGGCCTATGTGCATGAATTCAAATTCGGAAG  
CATCTTAGCCGATGACTTTCTGGACTTCTACTTGGAATATTTCCCTGAGCTTAAGAAAAAGAGAGTGGATATCAT  
TCCAGGTTTTGAGTTTGATCGATGGCTGAATACCCCGGCTGGCCCCCGTACCTCCCTGATCTCTCCCTGGGGA  
CTCACTCATGAAGCCTGCTGAAGAGCTAGCCCAACTGTGGGCAGCCGAGGAGCTGGACATGAAGGCCATTGAAGC  
CGTGGCCATCTCTCCCTGGAAGACCTACCAGCTGGTCTACTTCTTGATAAGATCCTCCAGAAATCCCCTCTCCC  
TCCTGGGAATGTGAAAAAAGCTTGGAGACACATAACCAAGTATCTCAAATGCCCGGAATGCAGAGCTCCGGCTGCG  
ATGGGGCCAAATCGTCTTAAGAACGACCACCAGGAAGATTTCTGGAAAGTGAAGGAGTTCTTGCATAACCAGGG  
GAAGCAGAAGTATACACTTCCGCTGTACCACGCAATGATGGGTGGCAGTGAGGTGGCCAGACCCCTCGCCAAGGA  
GACTTTTGATCCACCGCTCCAGCTCCACAGCAATGTTGTCAACTATGTCCAGCAGATCGTGGCACCCAAGGG  
CAGTTAGAGGCTCGTGTGCATGGCCCTGCCTCTTCAGGCTCTCCAGGCTTTCAGAATAATTGTTTGTTCCTCAA  
TTCTGTTCCCTGATCAACTTCTGGAGTTTATATCCCTCAGGATAATCTATCTCTAGCTTAGGTATCTGTGA  
CTCTTGGGCTCTGCTCTGGTGGGAACCTTACTTCTATAGCCCACTGAGCCCGAGACAGAGAACCTGCCACA  
GCTCTCCCCGCTACAGGCTGCAGGCACTGCAGGGCAGCGGTATTCTCCTCCCACTAAGTCTCTGGGAAGAAG  
TGGAGAGGACTGATGCTCTTCTTTTCTCTTCTGTCCTTTTCTTGCTGATTTTATGCAAAGGCTGGCATT  
TGATTGTTCTTTTTTTCAGGTTTAATCCTTATTTTAATAAAGTTTTCAAGCAAAAATT

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**FIGURE 574**

MASGEHSPGSGAARRPLHSAQAVDVASASNFRAFELLHLHLDLRAEFGPPGPGAGSRGLSGTAVLDLRCLEPEGA  
AELRLDShPCLEVTAALRRERPGSEEPPEPVSFYTQPFShYQALCVSFPQPCRAAERLQVLLTYRVGEGPGV  
CWLAPeQTAGKKKPFVYTQGGAVLNRAFFPCFDTPAVKYKYSALIEVPDGF TAVMSASTWEKRGPNKFFQMCQP  
IPSYLIALAIGDLVSAEVGPRSRVWAEFCLIDAAKEEYNGVIEEF LATGEKLF GPYVWGRYDLLFMPPSFPPGGM  
ENPCLTFVTPCLLAGDRSLADVIIHEISHSWFGNLVTNANWGEFWLNEGFTMYAQRRISTILFGAAYTCLEAATG  
RALLRQHMDITGEENPLNKLRLVKIEPGVDPDDTYNETPYEKGF CFVSYLAHLVGDQDQFDSFLKAYVHEFKFRSI  
LADDFLDFYLEYFPELKKKRVDIIPGFEEFDRWLNTPGWPPYLPDLSPGDSLMKPAEELAQLWAAEELDMKAIEAV  
AISPWKTYQLVYFLDKILQKSPLPPGNVKKLGDTYPSISNARNAELRLRWGQIVLKNHQedFWKVKEFLHNQgK  
QKYTLPLYHAMMGSEVAQTLAKETFASTASQLHSNVVNYVQQIVAPKGS



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**FIGURE 575**

AGGCTCTATTTAGAGCCGGGTAGGGGAGCGCAGCGGCCAGATACCTCAGCGCTACCTGGCGGAACTGGATTCTC  
TCCCGCCTGCCGGCCTGCCTGCCACAGCCGGACTCCGCCACTCCGGTAGGATTCCCCGCCTGTCATTCCCTAGCC  
CAGCTCTTGGGAACTGCAGAGGGGTCCAGAGGATTTCAGTTCTGAACCTGCACACTCCAGTCTAGGATCTCCG  
AGCAAGAGCGTAGCCTCATGGCTGCAACCTGTGAGATTAGCAACATTTTATAGCAACTACTTCAGTGCGATGTACA  
GCTCGGAGGACTCCACCCTGGCCTCTGTTCCCCCTGCTGCCACCTTTGGGGCCGATGACTTGGTACTGACCCTGA  
GCAACCCCCAGATGTCATTGGAGGGTACAGAGAAGGCCAGCTGGTTGGGGGAACAGCCCCAGTTCTGGTCGAAGA  
CGCAGGTTCTGGACTGGATCAGCTACCAAGTGGAGAAGAACAAGTACGACGCAAGCGCCATTGACTTCTCACCAT  
GTGACATGGATGGCGCCACCCTCTGCAATTGTGCCCTTGAGGAGCTGCGTCTGGTCTTTGGGCCTCTGGGGGACC  
AACTCCATGCCAGCTGCGAGACCTCACTTCCAGCTCTTCTGATGAGCTCAGTTGGATCATTGAGCTGCTGGAGA  
AGGATGGCATGGCCTTCCAGGAGGCCCTAGACCCAGGGCCCTTTGACCAGGGCAGCCCCCTTGCCAGGAGCTGC  
TGACGACGGTACGAAGCCAGCCCCTACCACCCCGGCAGCTGTGGCGCAGGAGCCCCCTCCCCGGCAGCTCTG  
ACGTCTCCACCGCAGGGACTGGTGCTTCTCGGAGCTCCCACTCCTCAGACTCCGGTGGAAGTGACGTGGACCTGG  
ATCCCACTGATGGCAAGCTCTTCCCCAGCGATGGTTTTCTGTGACTGCAAGAAGGGGGATCCCAAGCACGGGAAGC  
GGAAACGAGGCCGCCCGCCGAAAGCTGAGCAAAGAGTACTGGGACTGTCTCGAGGGCAAGAAGAGCAAGCACGGC  
CCAGAGGCACCCACCTGTGGGAGTTTCATCCGGGACATCCTCATCCACCCGGAGCTCAACGAGGGCCTCATGAAGT  
GGGAGAATCGGCATGAAGGCGTCTTCAAGTTCTGCGCTCCGAGGCTGTGGCCCAACTATGGGGCCAAAAGAAAA  
AGAACAGCAACATGACCTACGAGAAGCTGAGCCGGGCCATGAGGTACTACTACAAACGGGAGATCCTGGAACGGG  
TGGATGGCCGGCGACTCGTCTACAAGTTTGGCAAAAACCTCAAGCGGCTGGAAGGAGGAAGAGGTTCTCCAGAGTC  
GGAAGTGGAGGTTGGAATATACCCGGGACCAAACTCACGGACCACTCGAGGCCTGCAAACCTTCTGGGAGGAC  
AGGCAGGCCAGATGGCCCCCTCCACTGGGGAATGCTCCAGCTGTGCTGTGGAGAGAAGCTGATGTTTTGGTGTAT  
TGTGAGCCATCGTCTGGGACTCGGAGACTATGGCCTCGCTCCCCACCCTCCTCTTGGAATTACAAGCCCTGGG  
GTTTGAAGCTGACTTTATAGCTGCAAGTGTATCTCCTTTTATCTGGTGCCTCCTCAAACCCAGTCTCAGACACTA  
AATGCAGACAACACCTTCTCCTGTCAGACACCTGGACTGAGCCAAGGAGGCCTGGGGAGGCCCTAGGGGAGCACC  
GTGATGGAGAGGACAGAGCAGGGGCTCCAGCACCTTCTTTCTGGACTGGCGTTCACCTCCCTGCTCAGTGCTTGG  
GCTCCACGGGCAGGGGTCAGAGCACTCCCTAATTTATGTGCTATATAAATATGTCAGATGTACATAGAGATCTAT  
TTTTTCTAAAACATTCCCCCTCCCCACTCCTCTCCACAGAGTGCTGGACTGTTCCAGGCCCTCCAGTGGGCTGAT  
GCTGGGACCTTAGGATGGGGCTCCCAGCTCCTTTCTCCTGTGAATGGAGGCAGAGACCTCCAATAAAGTGCCTT  
CTGGGCTTTTTCTAACCTTTGTCTTAGCTACCTGTGTACTGAAATTTGGGCCTTTGGATCGAATATGGTCAAGAG  
GTTGGAGGGGAGGAAAATGAAGGTCTACCAGGCTGAGGGTGAGGGCAAAGGCTGACGAAGAGGGGAGTTACAGAT  
TTCTGTAGCAGGTGTGGGCTTACAGACACATGGACTGGGCTGGGAGGCGAGCAAAGGAAGCAGCTGAGACTGTT  
GGAGAACGCTTACAAGACTTCATGCAAGCAAGGACATGAACTCAGAACACTGAGGTCAGAAGCATCCTGCTGTCA  
TGACACCGCTCGAGTGACCTTGACCTTGACCAAGTCTGTCTGTTTAGGACTGATTTTTCTATTAGGCTAGGGT  
TTGGACCTGATGTTCTCAAGATGTCTAGAATTGCATGGCTGGCCTTGTGGAATAGATGGTTTTGCATTCCAGCCA  
AGTGTGCTGTAACTGTATATCTGTAATATGAATCCAGCTTTTGAGTCTGACAAAATCAGAGTTAGGATCTTGT  
AAAGGA

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**FIGURE 576**

CGGGTACAGGGGGCCCAAGAGCTGGGCTGGCTGTCTCCTGCTCATCCAGCCATGCGGTGGCTGTGGCCCCCTGGCT  
GTCTCTCTTGCTGTGATTTTGGCTGTGGGGCTAAGCAGGGTCTCTGGGGGTGCCCCCTGCACCTGGGCAGGCAC  
AGAGCCGAGACCCAGGAGCAGCAGAGCCGATCCAAGAGGGGCACCGAGGATGAGGAGGCCAAGGGCGTGACAGCAG  
TATGTGCCTGAGGAGTGGGCGGAGTACCCCGGCCCATTCACCCTGCTGGCCTGCAGCCAACCAAGCCCTTGGTG  
GCCACCAGCCCTAACCCCGACAAGGATGGGGGCACCCAGACAGTGGGCAGGAAGTGGGGGCAATCTGACAGGG  
GCACCAGGGCAGAGGCTACAGATCCAGAACCCCTGTATCCGGTGACCGAGAGCTCCTACAGTGCCTATGCCATC  
ATGCTTCTGGCGCTGGTGGTGTGTTGCGGTGGGCATTGTGGGCAACCTGTCGGTCATGTGCATCGTGTGGCACAGC  
TACTACCTGAAGAGCGCCTGGAACCTCCATCCTTGCCAGCCTGGCCCTCTGGGATTTTCTGGTCCTCTTTTCTGC  
CTCCCTATTGTATCTTTCAACGAGATCACCAAGCAGAGGCTACTGGGTGACGTTTCTTGTCGTGCCGTGCCCTTC  
ATGGAGGTCTCCTCTCTGGGAGTCACGACTTTTCAGCCTCTGTGCCCTGGGCATTGACCGCTTCCACGTGGCCACC  
AGCACCCCTGCCAAGGTGAGGCCCATCGAGCGGTGCCAATCCATCCTGGCCAAGTTGGCTGTATCTGGGTGGGC  
TCCATGACGCTGGCTGTGCCTGAGCTCCTGCTGTGGCAGCTGGCACAGGAGCCTGCCCCCACCATGGGCACCCCTG  
GACTCATGCATCATGAAACCCCTCAGCCAGCCTGCCGAGTCCCTGTATTCACTGGTGATGACCTACCAGAACGCC  
CGCATGTGGTGGTACTTTGGCTGCTACTTCTGCCTGCCATCCTCTTCACAGTCACCTGCCAGCTGGTGACATGG  
CGGGTGCGAGGCCCTCCAGGGAGGAAGTCAGAGTGCAGGGCCAGCAAGCACGAGCAGTGTGAGAGCCAGCTCAAC  
AGCACCGTGGTGGGCTGACCGTGGTCTACGCCTTCTGCACCTCCCAGAGAACGTCTGCAACATCGTGGTGGCC  
TACCTCTCCACCGAGCTGACCCGCCAGACCCTGGACCTCCTGGGCCTCATCAACCAGTTCTCCACCTTCTTCAAG  
GGCGCCATCACCCAGTGCTGCTCCTTTGCATCTGCAGGCCGCTGGGCCAGGCCTTCTGGACTGCTGCTGCTGC  
TGCTGCTGTGAGGAGTGC GGCGGGGCTTCGGAGGCCTCTGCTGCCAATGGGTGCGGACAACAAGCTCAAGACCGAG  
GTGTCCTCTTCCATCTACTTCCACAAGCCCAGGGAGTCACCCCACTCCTGCCCCCTGGGCACACCTTGCTGAGGC  
CCCAGTAGGGGTGGGGAGGGAGGGAGAGGCCGCCACCCCGCCGGTGTCTGCTGTTCTTTCCCATAGGTCTTGC  
TTTGTGCTGTCTTGCTGTCTAGGGATGGACTTGGTTCTCTTGTCAGGTTTGGGAATCCG

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**FIGURE 577**

MRWLWPLAVSLAVILAVGLSRVSGGAPLHLGRHRAETQEQQSRSKRGTEDEEAKGVQQYVPEEWA EYPRPIHPAG  
LQPTKPLVATSPNPKDGGTPDSGQELRGNLTGAPGQRLQIQNPLYPVTESSYSAYAIMLLALVVFAVGIVGNLS  
VMCIVWHSYYLKS AWNSILASLALWDFLVLFCLPIVIFNEITKQRL LGDVSCRAVFFMEVSSLGVTTFSLCALG  
IDRFHVATSTLPKVRPIERCQSILAKLAVI WVGSM TLAVPELLLWQLAQEPAPTMGTLDSCIMKPSASLPESLYS  
LVMTYQNARMWWYFGCYFCLPILFTVTCQLVTWRVRGPPGRKSECRASKHEQCESQLNSTVVGLTVVYAFCTLPE  
NVCNIVVAYLSTELTRQTLDLLGLINQFSTFFKGAITPVLLCICRPLGQAFLDCCCCCCECGGASEASAANG  
SDNKLKTEVSSSIYFHKPRES PPLLPLGTPC

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**FIGURE 578**

GCGCGCAGCGCTGGTACCCCGTTGGTCCGCGGTTGCTGCGTTGTGAGGGGTGTCAGCTCAGTGCAATCCCAGGCA  
GCTCTTAGTGTGGAGCAGTGAAGTGTGTGGTTTCCTTCTACTTGGGGATCATGCAGAGAGCTTCACGTCTGAAG  
AGAGAGCTGCACATGTTAGCCACAGAGCCACCCCCAGGCATCACATGTTGGCAAGATAAAGACCAAATGGATGAC  
CTGCGAGCTCAAATATTAGGTGGAGCCAACACACCTTATGAGAAAGGTGTTTTTAAGCTAGAAGTTATCATTCCCT  
GAGAGGTACCCATTTGAACCTCCTCAGATCCGATTTCTCACTCCAATTTATCATCCAAACATTGATTCTGCTGGA  
AGGATTTGCTGGATGTTCTCAAATTGCCACCAAAGGTGCTTGGAGACCATCCCTCAACATCGCAACTGTGTTG  
ACCTCTATTCAGCTGCTCATGTCAGAACCAACCTGATGACCCGCTCATGGCTGACATATCCTCAGAATTTAAA  
TATAATAAGCCAGCCTTCCTCAAGAATGCCAGACAGTGGACAGAGAAGCATGCAAGACAGAAACAAAAGGCTGAT  
GAGGAAGAGATGCTTGATAATCTACCAGAGGCTGGTGAATCCAGAGTACACAACCTCAACACAGAAAAGGAAGGCC  
AGTCAGCTAGTAGGCATAGAAAAGAAATTTTCATCCTGATGTTTAGGGGACTTGTCTGGTTTCATCTTAGTTAATG  
TGTTCTTTGCCAAGGTGATCTAAGTTGCCTACCTTGAATTTTTTTTAAATATATTTGATGACATAATTTTGTG  
TAGTTTATTTATCTTGTACATATGTATTTTGAATCTTTTAAACCTGAAAAATAAATAGTCATTTAATGTTGAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 579**

MQRASRLKRELHMLATEPPPGITCWQDKDQMDDLRAQILGGANTPYEKGVFKLEVIIPERYPFEPQIRELTPIY  
HPNIDSAGRICLDVLKLPKGAWRPSLNIATVLTISIQLLMSEPNPDDPLMADISSEFKYNKPAFLKNARQWTEKH  
ARQKQKADEEEMLDNLPEAGDSRVHNSTQKRKASQLVGIEKKFHPDV

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**FIGURE 580A**

ATGCTGCAAATGCCGAAGTTAAATGAAATACCTCCGGGGAGGGCAGGCCGAGGGAGGCTCGGGGGGAGGGAAGA  
TGGCCTGGACAAACAGGTCTGAAGCTGCGAGGCTGGAGTGGAGGGCGAGGGGAGGCGGGCGGCCAGAGCT  
CCATGGGACAGCTGGGGAAGCTCCAGGCTACCTACACAACCTGGCCCAGGCTGGTCACGGTGTCCCCCTCCCTG  
CTCTGTGCCCTCTCCTTCCAGAAATCCACCATGGAGAGTAAGGATGAGGTCAGCGACACCGACAGTGGCATCATC  
CTGCAGTCTGGCCCCGACAGCCCGGTCTCCCCAATGAAGGAGCTGACCCATGCAGTGCACAAGCAGCAGAGGGCC  
CTGGAAGCGAGGCTGGAGGCCTGCCCTGGAGGAGCTGAGGAGACTCTGCCTTCGGGAAGCGGAGCTGACGGGCACC  
TTGCCAGCGGAGTATCCCCTCAAACCAGGGGAAAAGGCCCCCAAGGTTTCGCCGAGGATCGGAGCGGCTTACAAA  
CTGGATGACTGGGCCTTGACAGAGAGGACCCCCCTAAGCAGCCTGGAGCGCCAGCTGGCCCTGCAGCTGCAGATC  
ACAGAGGCAGCCCGTTCGGCTGTGCCCTGGAGGAGAACCTCAGCAGGCAGGCTCGGCGGCAGCGGAAGCACTCCATG  
CTGCAGGAGGAGAAGAAGCTGCAGGAGCTCCAGCGCTGCCCTGGTCGAGCGGCGGCAATAGCGAGCCACCTCCG  
GCTGCTGCTCTCCCCCTGGGCGGAGAGCTCAGTGCCCTCTGATGACAGCTCCCTGTGAGATGGGCTCCTCTGGAG  
GAAGAGGAATCCCAAGTGCCAAAACCTCCTCCAGAGTCTCCAGCCCCACCTTCTCGGCCTCTCCCAACCCAAACC  
CTTGAGGGTCTGCAGCCAACAGGACCTGAGGCTGGGAGCCGAGAAGGGCTCCAGTCCAGAACAGCCCTGGAAG  
GAAACCAGCCTGGACCACCCCTATGAGAAGCCAGGAAGTCTTCTGAGCCCTGGAGCGAGTCCAGCAGCCAGCC  
ACCACACCACAGGATGGGCCCAGTGCCCTCCAGCCTGTGGCTTCTGGAGCCTGCCTCTACCACGTGGTTCCCATC  
CGTGGTGTCTTCTGGCCAGTGGCAGGGCCGACCAAGTGCCTCCAGCCACCCCTGAGATACAGGGGAGGAGGGGCCAG  
TCGCAGTCTCTGAGGGTGGATTCTTCCGGGCGGGTCTGAGGGCCGAGGTGCGAGCGCCTTTCGCCGCGCCGCG  
CCCACTCACTACACGGTGACAGTGCCAGATTCTGTCTTTCGCCGACCAAGCCCCGCTGCCACGCCGCTGTC  
CACTCCTGCTCAGAAGACAGTGGCTCTGACGCTCTCCAGCATCTCCACCCACTTCGCCGGGACGAGCAGCCCC  
GACATCTCCTTTCTGCAGCCTCTCTCCCCCTCCAAGACCATCGTCACCGCGGGCCTGGGTCCCAGCCGGCAGC  
AGAGAGCTGGTCGCCCACCACCCCAAGCTACTGCTGCCGCTGGCTATTTCCCGCGGGGCGGTACGTGGTGGTG  
GCTGAGAGCCCCCTGCCGCTGGCGAGTGGGAGCTGCGCCGCGCAGCCCCGGGCCCTGCTTACGAGGAGGAGGGC  
ACTCCCCTGCGCTACCAGCGTCTGGTGCCCTCCCGCAGCCGCATCGTGCGACGCCCTCCCTGAAGGACAGCCCG  
GCAGGCCGGGGCTCAGCAAGGCCCGGTGTCCGAGGAGCTCAAGTGGTGGACAGCGTGCACGCCCTCCGGAGC  
ACCCGCCCCCACTCACTGGACCGCCAAGGAGCTTTCGGGTGAGGAGCCTGCCCTTGGGAGAGAGGGCTTCGGA  
CGAGCCCTGGGACCCCGGGCAGAGTGCCACAGTTTGTGTGCTGCGGAGATCGCCTGATGGGGCCCCCTGTGCAA  
GTCTTTGTACCTGAAAAAGGAGAGATCATCAGCGAGGTGTAAGTCTGCGCCCCACGCTGGAAGAACTGTTTCAT  
AGAGGGGCTGGGCTGAGACCCCCCCACCCCTGAGTGCCCTCTTTCAGCTCCCCATCCCCATCGCAGGCCGATGAC  
CTGGAGCTGAGACCTTTTATTATTTTTTTTTTACACGACTTTTTTCAGAAGCCCTGACCTAAGGATTTATATATG  
TGGATTGTCTCAATACCCCTGTGATATGATTATGTTTTATCCCCCAGAGTTTGGCCTACTGGACTTAAGGCCTT  
GCCTGTCTGACTGACAGCCTCTATCTCCTTATATAAGACAAGTGGCAGGGGACGAGTGAAGCAGAGTGAGCCACC  
TTGGGAGTTCTCCAACGCTCTGTCTCTGTTCTAAGAAATTCCCTGGGGAAGTGGCCCTGGCCCTCTGTCCCA  
CTATTGCTGGAGGCTGGACATGGTACATACTCATGCACATGACTCTCCCCCATTTCCAGGTCTCTGGGTACCCC  
AGCCTGGGCTGGGGGAGAATCTCTCCCCCTTTCTAATGTGCTCTGTGATGCACACCAAGTGGTAGGTCAA  
GGTCAGTATATCCCGGTGGTGTATTGTCTTGTAGACCCTGCTATTTCTGACCCCTAAATCCTCTTTAGGGA  
CCAGTCACTATACCCTGTCTATGCCCTGTGGGCTCCAGACCCCTGAGCTTTGAGTCAGTGGCATCACAGTTG  
TAGCCTCAGGGGGTCTGGCTGGGGGCTGGTCCATGCTTGTGGTTAGTGGACAGCAGCCACCCTTTGACAGCTACC  
TCTGGGCATCTCAAGGGCTTGACAGCCCCACTGCTCCTTCTAACATTTTGTGTTTTTGTGATGGAGTCTCGCTC  
TGTGCCCCAGGCTGGAATGCTGTAGCAAGATTTGGGCTCACTGCAACCCCGTCTCCCGGGTTCAAGCGAATCTC  
CTGCCTCAGCCTTCCGAGTAGCTGGGATTACAGGCAAGCACCACCATGCCCTGCTAATTTTTTATTTTTAGTAGAG  
ATGGGGTTTCATCATGTTGGCCAGGCTGGTCTCGAAGTCTGACCTCAAGTGATCCACCTGCCCTTGGCCTTTCAA  
AGTGCTGGGATTACAGGCATGAGCCACCGCACCTGGCCCTTCTAACGTTTTTTCATCATAGTCCCAAAAACCAAT  
ACTTTACAAGTGGTTTTTGGAAAGGCACCACTTTTGTGGCATGTTCTGGTTGGGAGAGGGAGTCACAGTTCCTACT  
CCCCCACCAGCTATGCTTCTGCTCTGAGAAGGTGGTTATTTATACAAACATGGACATACTCACTCCCAAGGGCT  
GATGAGATGCTGAATTTTCTTTGGGGGCATTCAATTAATGTCCAGCTGCAGCGACTGGAGCAAGTCTGGAAGCT  
GCCTGTGCTAAGACCACCCAGCTGTCCCTGGGTTCTCATCTAGGGCCTTCTTGTCTCCAGGTGAGGGGACCTG  
CTTCAATGAGAAAGCAACTGAATTGAGGCTAGGAGAGGTAGGGAGAGCTGAGTCTGACTTCACCTGTGCAGAAC  
TCTCTGCCCCCATGTTACCTGGACTGGAACAGACTGTGAATATAGCAGAAGGTTCGAAGAACTCTGGTGTCTGAC

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**FIGURE 580B**

CTAGAAGAGGCACAGTTCTCTCTACTGGAAAGAAAACGATGTAGCCGATTGCACAAGGGTGCCAAGGGAAGACCC  
AGGATGGCCCATCAAAGGAACCTGGGGGAGGATGCAGGAGGCTGAAGGGATGCACCTGGCATTCTCTCACTGTG  
CTCTTACCGCATCAGCAACCCCCAACTTTTGGGCCTACTCTGCCCCCATGCGTGAATACCCTGCTTGGATGCTG  
TGCTTTTCCGGTTTGTCTCTAAGCCCCCTTCTCCAGGGCATGTTGGTTTCCCTGGCCTCTCAGTGTCTAACTGG  
AGCCCAGAGTGCCTTGTTCTGAGCCAGGAGACGGCTGAGCACTGGCCCTCCACACCTAAGCGTCCTTTACATTAA  
CTTATTGGTCTTGATATAACACCTGGTGCCATTGCCAAGTGGCTGTGTCCTCAGCTACAGAGCTGGAATTGTGTGG  
GGTTTAGTGCTAAATACTTCAATAAAGTCTGTTTTTTTGIGATTGGCTG

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**FIGURE 581**

TCCCGGGCCGGGAGCCCAGCAGGCCGGGAGCGGCTGAGGCCACACCCCGGGCCGGGCGCTTCCCTCCGGTGA  
ATCATCGCTCGCAGCGGCGGCGCCCGCAGTGGCCCGCAGCAGCGCGCGGGCCCTGGCCGCGCCCCAGCCGAGCGC  
AGCGCGGAGTCGCCCCGACCTTTCTCTGCGCAGTACGGCCGCGGGACCGCAGCATGGCGGGCATCGCGGCCAAG  
CTGGCGAAGGACCGGGAGGCGGCGGAGGGCTGGGCTCCACGACAGGGCCATCAAGTACCTCAACCAGGACTAC  
GAGGCGCTGCGGAACGAGTGCCTGGAGGCCGGGACGCTCTTCCAGGACCCGTCCTTCCCGGCCATCCCCTCGGCC  
CTGGGCTTCAAGGAGTTGGGGCCCTACTCCAGCAAAACCCGGGGCATCGAGTGGAAAGCGCCCCACGGAGATCTGC  
GCTGACCCCCAGTTTATCATTGGAGGAGCCACCCGCACAGACATCTGCCAAGGAGCCCTGGGTGACTGCTGGCTG  
CTGGCAGCCATTGCCTCCCTACCTTGAATGAAGAAATCCTGGCTCGAGTCGTCCCCCTAAACCAGAGCTTCCAG  
GAAACTATGCAGGGATCTTCACTTCCAGTTCTGGCAATACGGCGAGTGGGTGGAGGTGGTGGTGGATGACAGG  
CTGCCACCAAGGACGGGAGCTGCTCTTTGTGCATTACGCCGAAGGGAGCGAGTTCTGGAGCGCCCTGCTGGAG  
AAGGCATACGCCAAGATCAACGGATGCTATGAAGCGCTATCAGGGGGTGCCACCCTGAGGGCTTCGAAGACTTC  
ACCGGAGGCATTGCTGAGTGGTATGAGTTGAAGAAGCCCCCTCCCAACCTGTTCAAGATCATCCAGAAAGCTCTG  
CAAAAAGGCTCTCTCCTTGGCTGCTCCATCGACATCACCAGCGCCGCGGACTCGGAGGCCATCACGTTTCAGAAG  
CTGGTGAAGGGGCACGCGTACTCGGTACCGGAGCCGAGGAGGTTGAAAGTAACGGAAGCCTACAGAACTGATC  
CGCATCCGAAATCCCTGGGGAGAAGTGGAGTGGACAGGGCGGTGGAATGACAACTGCCCAAGCTGGAACACTATA  
GACCCAGAGGAGAGGGAAAGGCTGACCAGACGGCATGAAGATGGAGAATTCTGGATGTCTTTCAGTGACTTCCTG  
AGGCACTATTCCCGCCTGGAGATCTGTAACTGACCCAGACACTCTCACCAGCGATACCTACAAGAAGTGGAAA  
CTCACCAAAATGGATGGGAACTGGAGGCGGGGCTCCACCGCGGGAGGTTGCAGGAACACACATTCTGG  
ATGAACCTCAGTACCTGATCAAGCTGGAGGAGGAGGATGAGGACGAGGAGGATGGGGAGAGCGGCTGCACCTTC  
CTGGTGGGGCTCATTAGAAGCACCGACGGCGGCAGAGGAAGATGGGCGAGGACATGCACACCATCGGCTTTGGC  
ATCTATGAGGTTCCAGAGGAGTTAAGTGGGCAGACCAACATCCACCTCAGCAAAAATCTCTTCTGACGAATCGC  
GCCAGGGAGCGCTCAGACACCTTCATCAACCTCCGGGAGGTGCTCAACCGCTTCAAGCTGCCGCCAGGAGAGTAC  
ATTCTCGTGCTTCCACCTTCGAACCCAAACAGGATGGGGATTCTGCATCCGGGTCTTTTCTGAAAAGAAAGCT  
GACTACCAAGCTGTGATGATGAAATCGAGGCCAATCTTGAAGAGTTCGACATCAGCGAGGATGACATTGATGAT  
GGATTACAGGAGACTGTTTGCCAGTTGGCAGGAGAGGATGCGGAGATCTCTGCCTTTGAGCTGCAGACCATCCTG  
AGAAGGGTTCTAGCAAAGCGCCAAGATATCAAGTCAGATGGCTTCAGCATCGAGACATGCAAAATTATGGTTGAC  
ATGCTAGATTCCGACGGGAGTGGCAAGCTGGGGCTGAAGGAGTTCTACATTCTCTGGACGAAGATTCAAAAATAC  
CAAAAATTTACCGAGAAATCGACGTTGACAGGTCTGGTACCATGAATTCCTATGAAATGCGGAAGGCATTAGAA  
GAAGCAGGTTTCAAGATGCCCTGTCAACTCCACCAAGTCATCGTTGCTCGGTTTGAGATGACCACTCATC  
GATTTTGATAATTTTGTTGCTGTTTGGTTGCGCTGGAACGCTATTCAAGATATTTAAGCAGCTGGATCCCCGAG  
AATACTGGAACAATAGAGCTCGACCTTATCTCTGGCTCTGTTTCTCAGTACTTTGAAGTTATAACTAATCTGCC  
TGAAGACTTCTCATGATGGAATAATCAGCCAAGGACTAAGCTTCCATAGAAATACACTTTGTATCTGGACCTCAAA  
ATTATGGGAACATTTACTTAAACGGATGATCATAGCTGAAAATAATGATACTGTCAATTTGAGATAGCAGAAGTT  
TCACACATCAAAGTAAAAGATTGACATATCATTATACTAAATGCAAATGAGTCGCTTAACCCCTTGACAAGGTCAA  
AGAAAGCTTTAAATCTGTAAATAGTATACACTTTTACTTTTACACACTTTTCTGTTTATAGCAATATTAAATCA  
GGAAAAAAAATGCAGGGAGGTATTTAACAGCTGAGCAAAAACATTGAGTCACTCTCAAAGGACACGAGGCCCTT  
GGCAGGGAATATTTAAAGCACTTCAAGTTTAAATGACAGCTGTTGATTCTACCAAACAACAGTCCAAGATTACC  
ATTTCCCATGAGCCAAGTGGGAAACATGGTATATCATGAAGTAATCTGTCAAGGCATCTGGAGAGTCCAGGAGA  
GAAGACTCACCTCTGTGCTTGGGTTAAACAAGAGACAGGTTTTGTAGAATATTGATTGGTAATAGTAAATCGTT  
CTCCTTACAATCAAGTTCTTGACCCTATTGGCCTTATACATCTGGTCTTACAAAGACCAAAGGGATCTGCGCT  
TGATCAACTGAACAGTATGCCAAAACAGGCATCCAATTTGTAAACCAATTATGATAAAGGACAAAATAAGCTG  
TTTGCCACCTCAAACTTTATGAACCTTACCACCACTAGTGTCTGTCCATGGAGTTAGAGGGGACATCACTTAGA  
AGTTCTTATAGAAAGGACACAAGTTTGTTCCTGGCTTTACCTTGGGAAAATGCTAGCAACATTATAGAAATTTT  
GCCTTGTGCTTATCTTCTTCCAAATGTACTGTTAAATAAAAATAAAGGTTACCCCATGCAATCACACCATGC  
CATGTTTTCTTCTTGGAGGGCAGCCCCACAGGACGGTTTATGAGCACACAATTATAGCTTGTTTTCTACTTTAAC  
AAGGTATGCTGCTCTGTAAATTCATGTATTCAAAGGAAAAGACACCTTGCTTATAATTAAATGTGGAACATA  
AAATTTTTTAAATCC



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**FIGURE 582**

TCTAATACCTATTGATCTGTTACTTTCTCCCATCACGCTCAGGTGGGAACATCCAGTTGCAGGAAAACAAGCTTA  
ACACGCCCCTGATTCTACATTATGGTGAGTTCCATAATTATTTTATTATATATTACAGTGTAATAATGGAAATA  
AAGTGCCTAATAAATGCAAATGTGCTTACATCTTTTGGCCCAGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAG  
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCTCAATGGCCTATTTAGGCCCATAACCCTACGTCAC  
GGCAGCCTCCGCAGATGAGGCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT  
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTTGACCTCACCAGGCCCAGCTC  
ATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCCCCCTCCAGGCCCAGCCTCTGCCTCCCGT  
CAGCCTCTACAGTCCCAACGCTCTGCCCTCACAGCAGATTCTTCACGCCCAGCTTCTACCTCACTTGGACCCCTCCAG  
ACCCAGATGGTGTCTCACTGTGGCATCCTCAGGTGAAGCTCCTGCCTTTCGGCAGCCTCTCCAGGCCCAGCTCCT  
CCTGCCTCCCAGTGGCCTCTTTCGGCCCAGCCCAGCTCATGCCTCCCGGCGGCCTTCCCAAGCCCCGCTTTTGAC  
TTTCGGTGGCCTCTGCAGGCCTCGACAAGGCCAGCCTCCTGCCTCCCGAAGGCCTGCACAGGCCCAGCCTCTGC  
CTCACAGCGGACTCTC

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**FIGURE 583**

GGTATTTTCAGGACAGCCAGGAGGGGGCGCACATCCGCCGAGAACTGTGAGCAAGAGCGTCTGTGCTGAACCATG  
GCGCCACCAGAGGGCGCGCGATCCCGCCCCAACCACTTCCCGCTGAGGTGCCAGAAGCAGCGAGGAGCTTCAGC  
TTCTCAGGGCAGCAGGAGGGTCTGTAACTTGGTGTCTTCATTGATGATGATTATCCCCACCTTCTAAGAG  
ACAAAGACCAACGAGCCACCACAGCCACCAGTCCCAGAACCTGCCAATGCTGGGGAACGGAAATGAGGGAGTTC  
AACTCTGGCCCTCACAATCCAGTGGAGGAGACGAACTCATCTGCCTCTGTCCCTCTGGGCACGCCTCATGCCAG  
GTGCATCTGTGGACAGGGGCCATGCCCCCTGGGCTTCCAAAGTTGGAGAGAGCTGCCAGGCTCAGGTCTGAAGGCC  
AGAATTCTACAGTAAGTCTACTGAGTCAAGGTGGGAGCAGGGTTCGGTAGCTTCCGAGGCTCTGCGGGAGAATCC  
GTTTCTGGCCGTAGAGGTGGCCTGCACTCCGCAGCTTGTGCTGCCCGTCTCGAATGACTGGAGTTTCTGCTTC  
TGTCACCTACACCTCCCACCTCTCCATCACCTGCTCTGCTCTTACAAGGATCCGAAGAAATGGAATCATCGTATC  
GCTGATCTACGTAAACAACTGAAGAATTGTCTGAAAGAAAATATGACATGAACTTATGAATTCAACAGGTGAAG  
ATTACAACCTTGATAAATCAACTTTGTCTAGCTCGAGCTGTAAAGCCAAAGGTCCGGTGATGATCCCATACCTT  
TTTCCAGTCTCATGTTGAAGATTTTTATGTAGAAGGCCTTCCCAAAGGAATTTTTTTTTTTTTTTTTTTGA  
GATGGAGTTTTCACTCTTATCGCCAGGCTGGGGTGCAATGGCGCAACCTTGCTGGTCACTGCAACCTCTGCCTC  
CTGGGTTCAAGAAATCTCCTGCCTTAGCCTCCCAAGTCACTGGGATTACAGGTGCCACCACCATACCAGGCTA  
ATTTTGTATTTTTAGTGGAGATGCGGTTTACCATGTTGGCCGGGCCAGTCTCGAACTCCTGACGTCAAGTGAT  
CTTCCCGCCTCGACTCCTGATATCAAGTGATCTTCCCGCCTCGGCCTCCAGAGTCTGAGATTACAGACGTGAA  
CCCATGCCTGGCCAGGAATTTTGTTTTTTAGGAAGGCTTCTACTAATGGAATTCCTGGCCTTGAGAGGATGTTA  
CTTTAGAAGGAAAGGATTTTTTGTATTAAAGCTGGACCTACCATGAAAGACTTCTGAATCCAGGAAGAGAAA  
CTGACTGGGCAACATGTTATTCAGAAACAGGACCTTGCCCTGTCACTCAGGATGGAGTTCAGTGGTCTCATCATG  
GCTCATTATAGCCTCAAACCTCCAGGCTCAAGCAATCCTACCATGTGAGCCTTCCAGTAGCTGGGACTACAGAT  
ACCGGGTCTCACACTGTCAACCAGGCTGGAGTACAGTGGCACAACCTCTGCTCACTGCAGCCTCCACCTGCCAGG  
CTCAAGCAATCTCCTGCCTCAGCCTCCCGAGTAGCTGGTGATTTCCAGGATGTGAGCTCACAATGACTCAAGCT  
GCCACATACTGTTGATTGTGAAATGCCAGTTGAAGCATATGTCTGCGAGCTTAGGGGTGCTACAAGTTGACCAC  
TGCAGCAGTAAAGATGACTCTGAAGAATGGCGTGGGTTGGTTCCTTTCAAATGCACTTGAGCAGCGGTCTCCAAC  
CACAGGGCCACAGAGCTGGAGCTGGATCTACCATGAAAGACTTGTGAATCCAGGAAGAGAGACTGATGGGCAAC  
ATGTTATTCAGAATCTTCTGTGCCATCCAGGCTGGAGTGCAGTGATGTGATCATAGCTCACTATGCTTTGGCC  
TTCTGAGATCAAGCAATCCTCCCATCTCAACCTCCCAAGTAGCTAGGACTACACAGCATGTCACCCATGCCAG  
ATCATTTTGTAGAGTCAGAGTTTACCGTGGTGGCCAGGTTGGCCATGTTGGCCAGATGGGGTCTTCTTTTGT  
GCCAGGCTGGCCACAAATCCTGGGCTCAAGTGATCCTCCACCTCGTCCTTGTAGAGATGAGATTTAGTTATG  
TCGTCCAGGCTGATCTCAAACCTCCTGGGCTAAATCGATTGTCTCACCTCAGCCTCTCAAGTATGTTATGAAGGTT  
ATATGTTAGGAAGGGTCCAGGAGGTAAACCCACACAGATGGGATTTGGGCATAGGTTTGGTTTCCAGGGGGCA  
GTGCTGAGCTCTTTGCCAGTGGGAAATGGGATGCTGGTGATTTCCAGTAGGTGACCTCACAGTGACTCAAGCTAC  
CACTTACTGTTGATTGTGACGAAATGCCAGCTGAGGCACATGCCTTGGGAGCTAAGTGGTTGCTGCCCTTGACCA  
CTGTGAAGACTGGTGTGGGAAGGGTCGTTTTTGATGCACCTGAGCAGGGGTCCCCAACCCCTGAGCCATGGAGCC  
GCAAGGAGCCACACAGCAGGAGGTGGGAACATCCAGTTGCAGGAAAACAAGCTTAACACGCCCACTGATTCTACA  
TTATGCTCCTACCTCCCGCAGCCTCTCCAGGCCCAGAACTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGA  
CTCTCAATGGCCTATTTAGGCCATACCCTACGTACAGGCAGCCTCCGCAGATGAGGCTACTGCCTCACAACAGC  
CTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCAGCCTTCTCTCCAGGCC  
CTGAACCTTCTCAAGTTGACCTCACAGGCCAGCTCATGCTTCTTTGAGCCTCTCCAGGCCAGCTCCTGCAT  
CTTGGTGGCCCTCCAGGCCAGCCTCTGCCTCCCGTCAGCCTCTACAGTCCCAACGTCTGCCTCACAGCAGATT  
CTTCAGGCCAGCTTCTACCTCACTGTGGACCCCCAAGCCAAGCTCCCAACCTTTCAGCAGCTTCTACACACCC  
AGCTCCTGCCACCCAGTGGCCTCTTTAGGCCAAGCTCATGCTTCACAAGGGCCTTTCAGGCCCAACTTTGTCT  
CATGGCAACCTTCCCTGGCCAGATTCTGCCTGTCTCCAGCAGCCTAGACAGGCCCAGGTCTTGCCTCACACTG  
GCCTCTCTACATCCAGCTTATGCCTCACGGTGGCCTCTCCA

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**FIGURE 584**

MMIIPHLLRDKDQRATTATSPRTRQCGWTENEGVQLWPSQSSGGDETHLPLSLWARLMPGASVDRGHAPGLPKLE  
KAARLRSEGQNSTVSPTESRWEQGR

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**FIGURE 585**

GGACGGAAGGAGCGGCGGCGACGGAGGAGGAGGATGGAGGCGGTGGTGTTCGTCTTCTCTCTCCICGATTGTTGC  
GCGCTCATCTTCCTCTCGGTCTACTTCATAATTACATTGTCTGATTTAGAATGTGATTACATTAATGCTAGATCA  
TGTTGCTCAAAATTAAACAAGTGGGTAAATCCAGAATTGATTGGCCATACCATTGTCAGTGTATTACTGCTCATG  
TCATTGCACTGGTTTCATCTTCCTTCTCAACTTACCTGTTGCCACTTGGAATATATATCGATACATTATGGTGCCG  
AGTGGTAAACATGGGAGTGTGTTGATCCAACAGAAATACACAATCGAGGGCAGCTGAAGTCACACATGAAAGAAGCC  
ATGATCAAGCTTGGTTTCCACTTGCTCTGCTTCTTCATGTATCTTTATAGTATGATCTTAGCTTTGATAAATGAC  
TGAAGCTGGAGAAGCCGTGGTTGAAGTCAGCCTACACTACAGTGCACAGTTGAGGAGCCAGAGACTTCTTAAATC  
ATCCTTAGAACCGTGACCATAGCAGTATATATTTTCTCTTGGAAACAAAAAACTATTTTGTGTATTTTACCA  
TATAAAGTATTTAAAAACAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 586**

MEAVVFVFSLLDCCALIFLSVYFIITLSDLECDYINARSCCSKLNKWWIPELIGHTIVTVLLMSLHWFIFLLNL  
PVATWNIYRYIMVPSGNMGVFDPTTEIHNRGQLKSHMKEAMIKLGFHLLCFFMYLYSMILALIND

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**FIGURE 587**

CCCTAATCAAGTACCCCTCTCTCCACCCTCCTGCCCCACCCCTCCCTGCATCTGGATTCTTTTGGCATC  
CATGTTCAGAAGACAATCGCCCTTTAACTGGACTTGCAGCTGCAATTGCCGGAGCAAACTTAGGAAAGTGTACAG  
GATGGAGGATACCTCTTTCCCAAGTGGAGGGAATGCTATTGGTGTGAACTCCGCCTCATCTAAAACAGATACAGG  
CCGTGGAAATGGACCCCTTCTTTAGGGGGTAGTGGTTTTAATGGAAGAAATGAGTGCCCTGCTGGCCAGGAGGAG  
AAGAATTGCTGAAAAGGGATCAACAATAGAAACAGAACAAAAAGAGGACAAAGGTGAAGATTTCAGAGCCTGTAAC  
TTCTAAGGCCCTCTTCAACAAGTACACCTGAACCAACAAGAAAACCTTGGGAAAGAACAAATACAATGAATGGCAG  
CAAGTCACCTGTTATCTCCAGACCAAAATCCACACCCCTTATCACAGCCCAGTGCCAATGGAGTCCAGACGGAAGG  
ACTTGACTATGACAGGCTGAAGCAGGACATTTTAGATGAAATGAGAAAAGAATTAACAAAGCTAAAAGAAGAGCT  
CATTGATGCAATCAGGCAGGAACCTGAGCAAGTCAAATACTGCATAGAGGAACAGACTAAGGAGAGATAGGACTTT  
AATCTGGAGGAAAAATATCCTACAAACAACAACCTGTTCAACACAGCAAAACCCCTACATTTATGAGCTGTAAGAAG  
AAAATGGAGACAAACAGAAGGAGGGA AAAACCAACCTACTCTGAAAGCCTTCAGACATTATGACTCTGGTGATAA  
GCTCTTTCCCTCTCCGTTTGTCTGCTTTTTTCTGGCCTTTACAACAGAATGGAAGAGAATCATTTAAGAGTTCTCTG  
TAACAGTTATGCAGAAAATACTAAAACCCATCAGGCAAGATCACCACGCATTGAAATATTTTCATATCAAGATAA  
AGTCGCACATTTTCCACAATACATTGCTAAAATAAAGAGGAGAAAGGCTTAGGAAGTTTTTCTGCAGAGAGTGCT  
GGTAAAGAATTGAGCAAGTTTGTCTATTGTATTGTAATGTTTCTCTCAGGTTTGTCTTCTCTATCATGTTTGATAT  
TCCATGAATAATTGAGATCAGCCCTATGTAAGTTAAGATCATAATATGTGGAACAAATGGAATTGTAAGTGCTTT  
CAAAGGGTAATATTTATAAGAAAGTGTCGAAAAATGTTTCTTCAGCTTGAGAAATTTTAGAATGATAGGAAGTT  
TCTCGAGTTAGCCTTCATGCAATTTTGTAGATTAAAACATAAAATTTGTCCAGAACTTAAAGATTTAGATGCCTT  
CCTAAATTGTTACAATGCTTTACCAAATCTATGACTTCTACATAACACAAACCAGTGGTCAAATGTAAACACTAT  
ATTGTAGATTTACTGTAGGTTTTCAACCTTTTTTAGATTTATGCATGTGGACATTTTTTATAATGTAATTACAATC  
ACCACAAGGTTAGCTTTTTTAAATTGCAGACAGTAATGCATGTCACACTAATATGTAGTGGCCTTTTCAAGGCCTA  
GTCCCAGGGAAAAACATTTTGTAGAGTATAGGGGAGTGGGAGGAAGGGGAGGAATAATTTTTATTAAAGTTGAT  
TTCTGCACTATCTTTTTCTCAGTTACCTGCATGAATAAATAATGAGAAATATTTTGTGACTTTAATTGGTAAATA  
TGTTACAAAACCAAGTACTTAATCTTTTACATCATGTCTTCAGCTATTGTATTTTAAACCAGTAATTTCAATGGT  
CTGAAACATGATTCTGAGCTTCACATAATATCTTAACTGTGGAACCTCAAAGTTTGATCACTGAATTTGGCAGTT  
ATTATTACCTAGGTACCCCGCTGTTACACAGGTGTTTAGATACGTGTTCTCTGAATGAAGCTGCTTTTGAATTTT  
GTTATGTTGAAATGCAAGAAATAACAATGATGGCAGCAATTAAGGTCACAGAAATCATTAGGTAAAGGAAAACCA  
ATGAGGAGTTCTGCAGTTTTCTTTTAATAAGTAAAGTGAGACTTGGGTGGTGGGAAGAAGGAAGGTGGGAAGAAG  
GAATTAGACACTCTGCCTGCCACTCTGCGTGTGTGTGCTCTCGCGCACGTGCTGTCTATATGGAAGCCACTCCCT  
TTTCTTTCTTTGAAACTGGTAAGGTAAAAATAGGGGAGAAATCCTACATGTTGGAATGATAGCTTTTGGAAAA  
TTAAGAAACTCTCCAGGCTCTCCATCTTGATTTATGCTTGAGTTGTTATGTGCCATATTGCTTTGAACTCTGA  
TTATCAGAAGTTTACTAAAACCTTTGAAATAATTCACTTTCATCTGCTTCTAGATTTTGTACATCTCAGTCCAT  
AAAGCAAAGCTTGTGATAGTGTAGTTTTCTAAACGCTGCAATTTGCAGCCTTTACCACTACAAAGAAGTTTGG  
ATGAGGGATTTTTTTTTCTTTGTCAAATAGTTCTGTTTCTGTAGAAATTTCATTTTAGATTAACTGTGAT  
GGATGGGCTATCATAATTCAAGTATACATTTCTTTTTCTATCAGATATTCATTGTGCATGCAGTAGTAGTAAAA  
CATCAAAGATGCAGCAAGCTTATTAAGTATTATTTCTAAAAGAAATAGGAGGCATTTTCATCTTTATTATTGTA  
CTTTTGGTTATGCAACACTTTGATAATATAAACAGTTATGTCCCTATAAATCTGGTCAGCAACCTCTTTTGAT  
TTTGTGGGTAAGTTAAATAGTCTGTAGTAGGTAGGTACTGGGTACAAGTGGTCCAACTAAGATAAGAGACTA  
AAATAAAATGCTAAATCTTAAAAGAACTGGGTTTATGCACTAAACGTTTGTGCCTTGGTCTAATATTAAACATG  
ATGATGTGTAAACTGAC

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**FIGURE 588**

MSEDNRPLTGAAAAIAGAKLRKVSRMEDTSFPSSGNAIGVNSASSKTD TGRGNGPLPLGGSGLMEEMSALLARRR  
RIAEKGSTIETE QKEDKGEDSEPVTSKASSTSTPEPTRKPWERTNTMNGSKSPVISRPKSTPLSQPSANGVQTEG  
LDYDRLKQDILDEMRKELTKLKEELIDAIRQELSKSNTA

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**FIGURE 589**

GGGGCTGCTGGGACTCGCGTCGGTTGGCGACTCCCGGACGTAGGTAGTTTGTGTTGGCCGGGTTCTGAGGCCCTTGC  
TTCTCTTTACTTTTTCCACTCTAGGCCACGATGCCGAGTACCAGACCTGGGAGGAGTTTCAGCCGCGCTGCCGAGA  
AGCTTTACCTCGCTGACCCCTATGAAGGCACGTGTGGTTCTCAAATATAGGCATTCTGATGGAACTTGTGTGTTA  
AAGTAACAGATGATTTAGTTTGGTTGGTGTATAAAACAGACCAAGCTCAAGATGTAAAGAAGATTGAGAAATTC  
ACAGTCAACTAATGCGACTTATGGTAGCCAAGGAAGCCCGCAATGTTACCATGGAACTGAGTGAATGGTTTGAA  
ATGAAGACTTTGTGCTGTACTTAGGAAGTAAATATCTTTGAATTAGAGAAAGTGTGGGACAGAAAGTACTTTA  
TGTAAGTAAGTGGGCTGTTTCAGAAGCTTAGAGGTCATTTTTGTAAATTTCTTTTAATTACTTTAGAGAGCTAG  
GGATGCAAATGTTTTAGTTAGAAAGCCTTTATTTACTTTTGGAAATTGAACAAGAAATGCATCTGTCTTAGAAA  
CTGGAGATTATTTGATGTTAGGTAAAACATGTAATTGTTTCTCTGGCAAATTTGTATCAGTAATTTGAAATGAG  
ATATTAGGAAAAACCAATTCCTTCTTAAATTTAGTTTCATCTTTCTTTAAAGAACATTAAATGTAACCATTTTGT  
AGATCCATGTATTTTGGAGCATAAAATGTATGCTGTTGTGACCAATAAATATAAAATATGGTAATTTGGAATTAAC  
TCCACACCATAGTATGCATTGTTATACATACTGTGTACCTAATTATGTATAGCAGTGTAGTCTCAATTATATCTG  
AAAGTAATTTGTGACTAACAAGTATGCTTTGCCTTATTTCCACATTTAACTACCTGTTAATATAAGGGATTTGTA  
GTATCAGCTTGTTGAGCAATGACTTTGAATCTAGTTTTCAGTGATCAGAAGCAGCAGTTATTTGAGTGTATGAAT  
GGAATGATGATCACTGTGCTATAATGTACTGAAACCACCATATTACAGAAATATTTACTACATATTTTCCATCTG  
TAGTTTCTCAGAAGGGCTATGGATTAGTTTGAAGTGTCAAATCCTTGCACTTCTGTGACACCCCTGCCCATTT  
TCTGTCTTTAATTAACCAAGGTGTTAGGTGTGACTGTCACAACCTGTTATGTTTCCAGTAACTAGAAGTACGAT  
ATTTGATAATTATATTTGTATTTACCACCTAAATGTAATGTTGATTCTCAAGAATGAAATGAAGGCACCTACAT  
TGAAATATGTTTTGTATAAATTTGTCATGTTGAACAGCATTTTAGCATGGTAAGTTCCTTAGCTATATGAATTT  
TGGCATGTTTCAGAGAGATCAGTAAATAAAATATTAGAT



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**FIGURE 590**

MPQYQTWEEFSRAAEKLYLADPMKARVVLKYRHSDGNLCVKVTDDLVCCLVYKTDQAQDVKKIEKFHSQLMRLMVA  
KEARNVTMETE

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**FIGURE 591**

GCGGCTCCCAGGAGGCGTGAACCGCGGACCATGAGCGTGGGCTTCATCGGGGCCGGCCAGCTGGCCTATGCTCTG  
GCGCGGGGCTTCACGGCCGCAGGCATCCTGTCTGGCTCACAAAGATAATAGCCAGCTCCCCAGAAATGAACCTGCCC  
ACGGTGTCCGCGCTCAGGAAGATGGGTGTGAACCTGACACGCAGCAACAAGGAGACGGTGAAGCACAGCGACGTC  
CTGTTTCTGGCTGTGAAGCCACATATCATCCCCCTTCATCCTGGATGAGATTGGGGCCGACGTGCAAGCCAGACAC  
ATCGTGGTCTCCTGTGCGGCTGGTGTACCATCAGCTCTGTGGAGAAGAAGCTGATGGCATTCCAGCCAGCCCCC  
AAAGTGATTGCTGCATGACCAACACACCTGTGGTAGTGCAGGAAGGCGCTACAGTGTACGCCACGGGCACCCAT  
GCCCTGGTGGAGGATGGGCAGCTCCTGGAGCAGCTCATGAGCAGCGTGGGCTTCTGCACTGAGGTGGAAGAGGAC  
CTCATCGATGCCGTACGGGGCTCAGTGGCAGCGGGCCTGCCTATGCATTATGGCTCTGGACGCATTGGCTGAT  
GGTGGGGTGAAGATGGGTTTGCCACGGCGCCTGGCAATCCAACTCGGGGCCCAGGCTTGTCTGGGAGCTGCCAAG  
ATGCTGCTGGACTCGGAGCAGCATCCATGCCAGCTTAAGGACAATGTCTGCTCCCCTGGGGGAGCCACCATCCAC  
GCCCTGCACTTTCTAGAGAGTGGGGGCTTCCGCTCTCTGCTCATCAATGCAGTTGAGGCCTCCTGTATCCGAACA  
CGAGAGCTACAGTCCATGGCCGACCAAGAAAAGATCTCCCCAGCTGCCCTTAAGAAGACCCTCTTAGACAGAGTG  
AAGCTGGAATCCCCACAGTCTCCACACTGACCCCTCCAGCCCAGGGAAGCTCCTCACAAGAAGCCTGGCCCTG  
GGAGGCAAGAAGGACTAAGGCAGCATC

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**FIGURE 592**

TTTTCTTTGACTTGTTTGTGGATGGAATGTTTACAGACATTTCTAATTACTGCTTTAATTAAATAAATTGGATC  
AAAGGCCGTTTCGAGGTATTTTGTGTTTGCCGTTTGTGCTCAGAATTGGCATTGAGAGGTGATTGATACTGCT  
AACAAATTTCTAGTACTCTAGTTTGTGTTCAAGAAGAGATTTGGGTAGACGTAATCTTCACCCTTTCAAATTATA  
TAACAATACGAACATTATTTTTTATACTGATCATAATTTCCAGATTTGGGGAGGGGGTGATCGTGGCAGGAAAAG  
TTGTATGTTTGGTAGTTGCATATGGTGATTTTGTATTTTCAATGCTGGTAGGTAAGTAAGGAGGTCTCTGTACC  
ATGGCTCGTACAAAGCAGACTGCCCCGAAATCGACCGGTGGTAAAGCACCCAGGAAGCAACTGGCTACAAAAGCC  
GCTCGCAAGAGTGCGCCCTCTACTGGAGGGGTGAAGAACTCATCGTTACAGGCCTGGTACTGTGGCGCTCCGT  
GAAATTAGACGTTATCAGAAGTCCACTGAACCTCTGATTGCGAACTTCCCTTCCAGCGTCTGGTGCGAGAAATT  
GCTCAGGACTTTAAACAGATCTGCGCTTCCAGAGCGCAGCTATCGGTGCTTTGCAGGAGGCAAGTGAGGCCTAT  
CTGGTTGGCCTTTTTGAAGACACCAACCTGTGTGCTATCCATGCCAAACGTGTAAACAATTATGCCAAAAGACATC  
CAGCTAGCACGCCGCATACGTGGAGAACGTGCTTAAGAATCCACTATGATGGGAAACATTTTATTCTCAAAAAA  
AAAAAAAAAATTTCTCTTCTTCTGTTATTGGTAGTTCTGAACGTTAGATATTTTTTTTCCATGGGGTCAAAGG  
TACCTAAGTATATGATTGCGAGTGGAATAAGGGGACAGAAATCAGGTATTGGCAGTTTTTCCATTTTCATTTG  
TGTGTGAATTTTAAATATAAATGCGGAGACGTAAAGCATTAAATGCAAGTTAAATGTTTCAGTGAACAAGTTTCA  
GCGGTTCAACTTTATAATAATTATAAATAAACCTGTAAATTTTCTGGACAATGCCAGCATTGGATTTTTTTA  
AAACAAGTAAATTTCTTATTGATGGCAACTAAATGGTGTGTTGTAGCATTTTTATCATACAGTAGATTCCATCCAT  
TCACTATACTTTTCTAACTGAGTTGTCCTACATGCAAGTACATGTTTTAATGTTGTCTGTCTTCTGTGCTGTTT  
CTGTAAGTTTGCTATTAAAAATACATTAAACTAT

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**FIGURE 593A**

AATCTATCAGGGAACGGCGGTGGCCGGTGC GGCGTGTTCGGTGGCGGCTCTGGCCGCTCAGGCGCCTGCGGCTGG  
GTGAGCGCACGCGAGGCGGCGAGGCGGCAGCGTGTTCCTAGGTCGTGGCGTCGGGCTTCCGGAGCTTTGGCGGCA  
GCTAGGGGAGGATGGCGGAGTCTTCGGATAAGCTCTATCGAGTCGAGTACGCCAAGAGCGGGCGCGCTCTTGCA  
AGAAATGCAGCGAGAGCATCCCCAAGGACTCGCTCCGGATGGCCATCATGGTGCAGTCGCCCATGTTTGATGGAA  
AAGTCCCACACTGGTACCCTTCTCCTGCTTCTGGAAGGTGGGCCACTCCATCCGGCACCTGACGTTGAGGTGG  
ATGGGTTCTCTGAGCTTCGGTGGGATGACCAGCAGAAAGTCAAGAAGACAGCGGAAGCTGGAGGAGTGACAGGCA  
AAGGCCAGGATGGAATTGGTAGCAAGGCAGAGAAGACTCTGGGTGACTTTGCAGCAGAGTATGCCAAGTCCAACA  
GAAGTACGTGCAAGGGGTGTATGGAGAAGATAGAAAAGGGCCAGGTGCGCCTGTCCAAGAAGATGGTGGACCCGG  
AGAAGCCACAGCTAGGCATGATTGACCGCTGGTACCATCCAGGCTGCTTTGTCAAGAACAGGGAGGAGCTGGGTT  
TCCGGCCCCGAGTACAGTGCGAGTCAGCTCAAGGGCTTCAGCCTCCTTGCTACAGAGGATAAAGAAGCCCTGAAGA  
AGCAGCTCCCAGGAGTCAAGAGTGAAGGAAAGAGAAAAGGCGATGAGGTGGATGAGTGGATGAAGTGGCGAAGA  
AGAAATCTAAAAAGAAAAAGACAAGGATAGTAAGCTTGAAAAAGCCCTAAAGGCTCAGAACGACCTGATCTGGA  
ACATCAAGGACGAGCTAAAGAAAGTGTGTTCAACTAATGACCTGAAGGAGCTACTCATCTTCAACAAGCAGCAAG  
TGCCTTCTGGGGAGTCGGCGATCTTGACCCGAGTAGCTGATGGCATGGTGTTCGGTGGCCCTCCTTCCCTGCGAGG  
AATGCTCGGGTCAGCTGGTCTTCAAGAGCGATGCCATTACTGCCTGAGGACGTCCTGCTGACCAAGTGTGA  
TGGTCAAGACACAGACACCCAACCGGAAGGAGTGGTAACCCCAAAGGAATTCCGAGAAATCTCTTACCTCAAGA  
AATTGAAGGTTAAAAACAGGACCGTATATTCCCCCAGAAACAGCGCCTCCGTGGCGGCCACGCTCCGCCCT  
CCACAGCCTCGGCTCCTGCTGCTGTGAATCCTCTGCTTCAGCAGATAAGCCATTATCCAACATGAAGATCCTGA  
CTCTCGGGAAGCTGTCCCGGAACAAGGATGAAGTGAAGGCCATGATTGAGAACTCGGGGGGAAGTTGACGGGGA  
CGGCCAACAAGGCTTCCCTGTGCATCAGCACCAAAAAGGAGGTGGAAAAGATGAATAAGAAGATGGAGGAAGTAA  
AGGAAGCCAACATCCGAGTTGTGTCTGAGGACTTCTCCAGGACGTCCTCCGCCCTCCACCAAGAGCCTTCAGGAGT  
TGTTCTTAGCGCACATCTTGTCCCTTGGGGGGCAGAGGTGAAGGCAGAGCCTGTTGAAGTTGTGGCCCCAAGAG  
GGAAGTCAGGGGCTGCGCTCTCCAAAAAGCAAGGGCCAGGTCAAGGAGGAAGGTATCAACAAATCTGAAAAGA  
GAATGAAATTAATCTTAAAGGAGGAGCAGCTGTGGATCCTGATTCTGGACTGGAACACTCTGCGCATGTCTGG  
AGAAAGGTGGGAAGGTCTTCAGTGCCACCTTGGCCTGTGGACATCGTTAAAGGAACCACTCCTACTACAAGC  
TGCAAGCTTCTGGAGACGACACAAGGAAAACAGGTATTGGATATTAGGTCCTGGGGCCGTGTGGGTACGGTGATCG  
GTAGCAACAACTGGAACAGATGCCGTCCAAGGAGGATGCCATTGAGCACTTCATGAAATTATATGAAGAAAAAA  
CCGGGAACGCTTGGCACTCCAAAAATTTACGAAGTATCCCAAAAAGTTCTACCCCTGGAGATTGACTATGGCC  
AGGATGAAGAGGCAGTGAAGAAGCTGACAGTAAATCCTGSCACCAAGTCCAAGCTCCCCAAGCCAGTTTCAAGACC  
TCATCAAGATGATCTTTGATGTGGAAGTATGAAGAAAGCCATGGTGGAGTATGAGATCGACCTTCAGAAGATGC  
CCTTGGGGAAGCTGAGCAAAAGGCAGATCCAGGCCGATACTCCATCCTCAGTGAGGTCCAGCAGGCGGTGTCTC  
AGGGCAGCAGCGACTCTCAGATCCTGGATCTCTCAAATCGCTTTTACACCCTGATCCCCACGACTTTGGGATGA  
AGAAGCCTCCGCTCCTGAACAATGCAGACAGTGTGCAGGCCAAGGTGGAATGCTTGACAACCTGCTGGACATCG  
AGGTGGCCTACAGTCTGCTCAGGGGAGGGTCTGATGATAGCAGCAAGGATCCCATCGATGTCAACTATGAGAAGC  
TCAAACTGACATTAAGGTGGTTGACAGAGATTCTGAAGAAGCCGAGATCATCAGGAAGTATGTTAAGAACACTC  
ATGCAACCACACACAATGCGTATGACTTGGAAGTCATCGATATCTTTAAGATAGAGCGTGAAGGCGAATGCCAGC  
GTTACAAGCCCTTTAAGCAGCTTCATAACCGAAGATTGCTGTGGCACGGGTCCAGGACCACCAACTTTGCTGGGA  
TCCTGTCCAGGGTCTTCGGATAGCCCCGCTGAAGCGCCCGTGACAGGCTACATGTTTGGTAAAGGGATCTATT  
TCGCTGACATGGTCTCCAAGAGTGCCAACCTACTGCCATACGCTCAGGGAGACCCAATAGGCTTAATCCTGTTGG  
GAGAAGTTGCCCTTGGAAACATGTATGAACTGAAGCACGCTTCACATATCAGCAAGTTACCCAAGGGCAAGCACA  
GTGTCAAAGGTTTGGGCAAACTACCCCTGATCCTTCAGCTAACATTAGTCTGGATGGTGTAGACGTTCTCTTG  
GGACCGGGATTTCATCTGGTGTGAATGACACCTCTCTACTATATAACGAGTACATTGTCTATGATATGCTCAGG  
TAAATCTGAAGTATCTGCTGAACTGAAATTCATTTTAAAGACCTCCCTGTGGTAATTGGGAGAGGTAGCCGAGT  
CACACCCGGTGGCTCTGGTATGAATTCACCGGAAGCGCTTCTGCACCAACTCACCTGGCCGCTAAGTTGCTGATG  
GGTAGTACCTGTACTAAACCACCTCAGAAAGGATTTTACAGAAACGTGTTAAAGGTTTCTCTAACTTCTCAAGT  
CCCTTGTTTTGTGTTGTGTCTGTGGGGAGGGGTTGTTTTGGGGTTGTTTTGTTTTTCTTGCCAGGTAGATAAA  
ACTGACATAGAGAAAAGGCTGGAGAGAGATTCTGTTGCATAGACTAGTCCTATGGAAAAACCAAGCTTCGTTAG  
AATGTCTGCCTTACTGGTTTTCCCGAGGGAAGGAAAAATACACTTCCACCCTTTTTCTAAGTGTTGCTCTTAGT

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**FIGURE 593B**

TTTGATTTTGGAAAGATGTTAAGCATTTATTTTGTAGTTAAAAATAAAAACTAATTCATACTATTTAGATTTTCT  
TTTTTATCTTGCACTTATTGTCCTCTTTTGTAGTTTTTTTGTGCTCTTGTGGTGAGGGGTGTGGGAAGACCA  
AAGGAAGGAACGCTAACAATTTCTCATACTTAGAAACAAAAAGAGCTTTCCTTCTCCAGGAATACTGAACATGGG  
AGCTCTTGAAATATGTAGTATTAAAAGTTGCATTG

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**FIGURE 594**

CGAGCGGCGGCGGAGCAGGCATTTCCAGCAGTGAGGAGACAGCCAGAAGCAAGCTATTGGAGCTGAAGGAACCTG  
AGACAGAAGCTAGTCCCCCTCTGAATTTTACTGATGAAGAACTGAGGCCACAGAGCTAAAGTGACTTTTCCCA  
AGGTCGCCCAGCGAGGACGTGGGACTTCTCAGACGTCAGGAGAGTGATGTGAGGGAGCTGTGTGACCATAGAAAG  
TGACGTGTTAAAAACCAGCGCTGCCCTCTTTGAAAGCCAGGGAGCATCATTCAATTTAGCCTGCTGAGAAGAAGAA  
ACCAAGTGTCGGGATTGACACCTCTCTGCGGCCCAAGTGTTTCGTGGTGCTTCCAGAGGCAGGGCTATGCTCAC  
ATTCATGGCCTCTGACAGCGAGGAAGAAGTGTTGATGAGCGGACGTCCCTAATGTGCGCCGAGAGCCCCACGCC  
GCGCTCCTGCCAGGAGGGCAGGCAGGGCCCAGAGGATGGAGAGAACACTGCCCAGTGGAGAAGCCAGGAGAACGA  
GGAGGACGGTGAGGAGGACCCTGACCGCTATGTCTGTAGTGGGGTTCCCGGGCGGCCCGCAGGCCTGGAGGAAGA  
GCTGACCCTCAAATACGGAGCGAAGCACGTGATCATGCTGTTTGTGCCGTGCTACTCTGTGCATGATCGTGGTGGT  
AGCCACCATCAAGTCTGTGCGCTTCTACACAGAGAAGAATGGACAGCTCATCTACACGACATTCAGTGAGGACAC  
ACCTCGGTGGGCCAGCGCCTCCTCAACTCCGTGCTGAACACCCTCATCATGATCAGCGTCATCGTGGTTATGAC  
CATCTTCTTGGTGGTGCTCTACAAGTACCGCTGCTACAAGTTTCATCCATGGCTGGTTGATCATGTCTTCACTGAT  
GCTGCTGTTCCCTTCACTATATCTACCTTGGGGAGTGCTCAAGACCTACAATGTGGCCATGGACTACCCAC  
CCTCTTGCTGACTGTCTGGAACCTTCGGGGCAGTGGGCATGGTGTGCATCCACTGGAAGGGCCCTCTGGTGTGCA  
GCAGGCCTACCTCATCATGATCAGTGCCTCATGGCCCTAGTGTTTCATCAAGTACCTCCAGAGTGGTCCGCGTG  
GGTCATCCTGGGCGCCATCTCTGTGTATGATCTCGTGGCTGTGCTGTGTCCCAAAGGGCCTCTGAGAATGCTGGT  
AGAACTGCCCAGGAGAGAAATGAGCCCATATTCCTGCCCCTGATATACTCATCTGCCATGGTGTGGACGGTTGG  
CATGGCGAAGCTGGACCCCTCCTCTCAGGGTGCCCTCCAGCTCCCTACGACCCGGAGATGGAAGAAGACTCCTA  
TGACAGTTTTGGGGAGCCTTCATACCCCGAAGTCTTTGAGCCTCCCTTGACTGGCTACCCAGGGGAGGAGCTGGA  
GGAAGAGGAGGAAAGGGGCGTGAAGCTTGGCCTCGGGGACTTCATCTTCTACAGTGTGCTGGTGGGCAAGGCGGC  
TGCCACGGGCAGCGGGGACTGGAATACCACGCTGGCCTGCTTCGTGGCCATCCTCATTGGCTTGTGTCTGACCCT  
CCTGCTGCTTGTGTGTCAAGAAGGCGCTGCCCGCCCTCCCATCTCCATCACGTTTCGGGCTCATCTTTTACTT  
CTCCACGGACAACCTGGTGGGCGCTTCATGGACACCCTGGCCTCCCATCAGCTCTACATCTGAGGGACATGGTG  
TGCCACAGGCTGCAAGCTGCAGGGAATTTTCATTGGATGCAGTTGTATAGTTTACACTCTAGTGCCATATATTT  
TTAAGACTTTTCTTTTCTTAAAAATAAAGTACGTGTTTACTTGGTGAGGAGGAGGCAGAACCAGCTCTTTGGTG  
CCAGCTGTTTCATCACCAGACTTTGGCTCCCGCTTTGGGGAGCGCCTCGCTTCACGGACAGGAAGCACAGCAGGT  
TTATCCAGATGAAGTGAAGGTGAGATTAGGGCGGGGAGAAGAGCATCCGGCATGAGGGCTGAGATGCGCAAAG  
AGTGTGCTCGGGAGTGGCCCTGGCACCTGGGTGCTCTGGCTGGAGAGGAAAAGCCAGTTCCTACGAGGAGTGT  
TCCCAATGCTTTGTCCATGATGCTCTTGTATTTTATTGCTTTAGAACTGAGTCCTGTTCTTGTACGGCAGT  
CACACTGCTGGGAAGTGGCTTAATAGTAATATCAATAAATAGATGAGTCCTGTTAGAAAAA

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**FIGURE 595**

MLTFMASDSEEEVCDERTSLMSAESPTPRSCQEGRQGPEDGENTAQWRSQENEEEDGEEDPDRYVCSGVPGRPPGL  
EEELTLKYGAKHVIMLFVPVTLCMIVVATIKSVRFYTEKNGQLIYTTFTEDTPSVGQRLLNSVLNTLIMISVIV  
VMTIFLVVLYKYRCYKFIHGWLIMSSIMLLFLFTYIYLGEVLKTYNVAMDYPTLLLTVWNFGAVGMVCIHWKGPL  
VLQQAYLIMISALMALVFIKYLPEWSAWVILGAISVYDLVAVLCPKGPLRMLVETAQERNEPIFPALIYSSAMVW  
TVGMAKLDPSSQALQLPYDPEMEEDSYDSFGEPSYPEVFEPPLTGYPGEELEEEERGVKLGGLGDFIFYSVLVG  
KAAATGSGDWNTTLACFVAILIGLCLTLLLLAVFKKALPALPISITFGLIFYFSTDNLVRPFMDTLASHQLYI

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**FIGURE 596**

CGAGCGGCGGCGGAGCAGGCATTTCCAGCAGTGAGGAGACAGCCAGAAGCAAGCTATTGGAGCTGAAGGAACCTG  
AGACAGAAGCTAGTCCCCCTCTGAATTTTACTGATGAAGAACTGAGGCCACAGAGCTAAAGTGACTTTTCCCA  
AGGTCGCCCAGCGAGGACGTGGGACTTCTCAGACGTCAGGAGAGTGATGTGAGGGAGCTGTGTGACCATAGAAAG  
TGACGTGTTAAAAACCAGCGCTGCCCTCTTTGAAAGCCAGGGAGCATATTCATTTAGCCTGCTGAGAAGAAGAA  
ACCAAGTGTCCGGGATTACAGACCTCTCTGCGGCCCAAGTGTTCGTGGTGCTTCCAGAGGCAGGGCTATGCTCAC  
ATTCATGGCCTCTGACAGCGAGGAAGAAGTGTGTGATGAGCGGACGTCCCTAATGTGGGCCGAGAGCCCCACGCC  
GCGCTCCTGCCAGGAGGGCAGGCAGGGCCCAGAGGATGGAGAGAACTGCCCAGTGGAAGCCAGGAGAACGA  
GGAGGACGGTGAGGAGGACCCTGACCGCTATGTCTGTAGTGGGGTTCCCGGGCGGCCGAGGCCTGGAGGAAGA  
GCTGACCCTCAAATACGGAGCGAAGCACGTGATCATGCTGTTTGTGCCTGTCACTCTGTGCATGATCGTGGTGGT  
AGCCACCATCAAGTCTGTGCGCTTCTACACAGAGAAGAATGGACAGCTCATCTACAGCATTCACTGAGGACAC  
ACCCTCGGTGGGCCAGCGCCTCCTCAACTCCGTGCTGAACACCCTCATCATGATCAGCGTCATCGTGGTTATGAC  
CATCTTCTTGGTGGTGTCTACAAGTACCCTGCTACAAGTTCATCCATGGCTGGTTGATCATGTCTTCACTGAT  
GCTGTGTTCTCTTACCTATATCTACCTTGGGGAAGTGCTCAAGACCTACAATGTGGCCATGGACTACCCAC  
CCTCTTGTGACTGTCTGGAACCTCGGGGAGTGGGCATGGTGTGCATCCACTGGAAGGGCCCTCTGGTGTGCA  
GCAGGCCTACCTCATCATGATCAGTGCCTCATGGCCCTAGTGTTCATCAAGTACCTCCCAGAGTGGTCCGCGTG  
GGTCATCCTGGGCGCCATCTCTGTGTATGATCTCGTGGCTGTGCTGTGTCCCAAAGGGCCTCTGAGAATGCTGGT  
AGAAACTGCCCAGGAGAGAAATGAGCCCATATCCCTGCCCTGATATACTCATCTGCCATGGTGTGGACGGTTGG  
CATGGCGAAGCTGGACCCCTCCTCTCAGGGTGCCCTCCAGCTCCCTACGACCCGAGATGGAAGACTCCTATGA  
CAGTTTTGGGGAGCCTTCATACCCCGAAGTCTTTGAGCCTCCCTTGACTGGCTACCCAGGGGAGGAGCTGGAGGA  
AGAGGAGGAAAGGGGCGTGAAGCTTGGCCTCGGGGACTTCATCTTCTACAGTGTGCTGGTGGGCAAGCGGCTGC  
CACGGGCAGCGGGGACTGGAATACCACGCTGGCCTGCTTCGTGGCCATCCTCATTTGGCTTGTGTCTGACCCTCCT  
GCTGCTTGTGTGTTCAAGAAGGCGCTGCCCGCCCTCCCCATCTCCATCACGTTTCGGGCTCATCTTTTACTTCTC  
CACGGACAACCTGGTGGGCCGTTTCATGGACACCCTGGCCTCCCATCAGCTCTACATCTGAGGGACATGGTGTGC  
CACAGGCTGCAAGCTGCAGGGAATTTTCAATTGGATGCAGTTGTATAGTTTTACTCTAGTGCCATATATTTTTA  
AGACTTTTCTTCTTAAAAATAAAGTACGTGTTTACTTGGTGAGGAGGAGGCAGAACCAGCTCTTTGGTGCCA  
GCTGTTTTCATCACCAGACTTTGGCTCCCGCTTTGGGGAGCGCCTCGCTTCACGGACAGGAAGCACAGCAGGTTTA  
TCCAGATGAACTGAGAAGGTCAGATTAGGGCGGGGAGAAGAGCATCCGGCATGAGGGCTGAGATGCGCAAAGAGT  
GTGCTCGGGAGTGGCCCCCTGGCACCTGGGTGCTCTGGCTGGAGAGGAAAAGCCAGTTCCTACGAGGAGTGTTC  
CAATGCTTTGTCCATGATGTCTTGTATTTTATTGCCCTTTAGAACTGAGTCCTGTTCTTGTACGGCAGTCA  
ACTGCTGGGAAGTGGCTTAATAGTAATATCAATAAATAGATGAGTCCTGTTAGAAAAA



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**FIGURE 597**

MLTFMASDSEEEVCDERTSLMSAESPTPRSCQEGRQGPEDGENTAQWRSQENEEDGEEDPDRYVCSGVPGRPPGL  
EEELTLKYGAHVIMLFVPVTLCMIVVATIKSVRFYTEKNGQLIYTTFTEDTPSVGQRLNLSVLNLTIMISVIV  
VMTIFLVVLYKYRCYKFIHGWLIMSSLMLLFLFTYIYLGEVLKTYNVAMDYPTLLLTWVWFGAVGMVCIHWKGPL  
VLQQAYLIMISALMALVFIKYLPEWSAWVILGAI SVYDLVAVLCPKGPLRMLVETAQERNEPIFPALIYSSAMVW  
TVGMAKLDPSQALQLPYDPEMEDSYDSFGEPSYPEVFEPPLTGYPGEELEEEERGVKLGDFIFYSVLVGK  
AAATGSGDWNTTLACFVAILIGLCLTLLLLAVFKKALPALPISITFGLIFYFSTDNLVRPFMDTLASHQLYI

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**FIGURE 598A**

TATACTTCGCTACTTGGCTAGAGTTGCAACTACAGCTGGGTTATATGGCTCTAATCTGATGGAACATACTGAGAT  
TGATCACTGGTTGGAGTTCAGTGCTACAAAATTATCTTCATGTGATTCCCTTTACTTCTACAATTAATGAACTCAA  
TCATTGCCGTCTCTGAGAACATACTTAGTTGGAACTCCCTTGAGTTTAGCAGATTATGTGTTTGGGCCACCCT  
AAAAGGAAATGCTGCCTGGCAAGAACAGTTGAAACAGAAGAAAGCTCCAGTTCATGTAAAACGTTGGTTTGGCTT  
TCTTGAAGCCCAGCAGGCCCTCCAGTCAGTAGGTACCAAGTGGGATGTTTCAACAACCAAAGCTCGAGTGGCACC  
TGAGAAAAAGCAAGATGTTGGGAAATTTGTTGAGCTTCCAGGTGCGGAGATGGGAAAGGTTACCGTCAGATTTCC  
TCCAGAGGCCAGTGGTTACTTACACATTGGGCATGCAAAAGCTGCTCTTCTGAACCAGCACTACCAGGTTAACTT  
TAAAGGGAACCTGATCATGAGATTTGATGACACAAATCCTGAAAAAGAAAAGGATTTTGAGAAGGTTATCTT  
GGAAGATGTTGCAATGTTGCATATCAAACCAGATCAATTTACTTATACTTCGGATCATTTTGAACTATAATGAA  
GTATGCAGAGAAGCTAATTCAGAAGGGAAGGCTTATGTGGATGATACTCCTGCTGAACAGATGAAAGCAGAACG  
TGAGCAGAGGATAGAATCTAAACATAGAAAAACCCTATTGAGAAGAATCTACAAATGTGGGAAGAAATGAAAAA  
AGGGAGCCAGTTTGGTCAGTCCTGTTGTTTGGCAGCAAAAATTGACATGAGTAGTAACAATGGATGCATGAGAGA  
TCCAACCTTTTATCGCTGCAAAATTCACCACATCCAAGAAGTGGAAATAAATACAATGTTTATCCAACATATGA  
TTTTGCCTGCCCCATAGTTGACAGCATCGAAGGTGTACACATGCCCTGAGAACAACAGAATACCATGACAGAGA  
TGAGCAGTTTTACTGGATTATTGAAGCTTTAGGCATAAGAAAACCATATATTTGGGAATATAGTCGGCTAAATCT  
CAACAACACAGTGCTATCCAAAAGAAAACCTCACATGGTTTGTCAATGAAGGACTAGTAGATGGATGGGATGACCC  
AAGATTTCCCTACGGTTCGTGGTGACTGAGAAGAGGGATGACAGTTGAAGGACTGAAACAGTTTATTGCTGCTCA  
GGGCTCCTCACGTTTCAGTCGTGAACATGGAGTGGGACAAAACTGCGGCGTTTAAACAAAAGGTTATTGACCCAGT  
GGCTCCACGATATGTTGCATTACTGAAGAAAGAGTATCCAGTGAATGTACCTGAAGCTCAGGAGGAGATGAA  
AGAAGTAGCCAAACACCCAAAGAATCCTGAGGTTGGCTTGAAGCCTGTGTGGTATAGTCCCAAAGTTTTTCATTGA  
AGGTGCTGATGCAGAGACTTTTTTCGAGGGTGAGATGGTTACATTTATAAATTGGGGCAACCTCAACATTACAAA  
AATACACAAAAATGCAGATGGAAAAATCATATCTCTTGATGCAAGTTGAATTTGGAAAAACAAAGACTACAAGAA  
AACCATAAGGTCATTGGCTTGACAGAGACTACACATGCTCTTCTTATTCAGTAATCTGTGTCACTTATGAGCA  
CTTGATCACAAAGCCAGTGCTAGGAAAAGACGAGGACTTTAAGCAGTATGTCAACAAGAACAGTAAGCATGAAGA  
GCTAATGTAGGGGATCCCTGCCTTAAGGATTTGAAAAAGGAGATATTATACAACCTCCAGAGAAGAGGATTCTT  
CATATGTGATCAACCTTATGAACCTGTAGCCCATATAGTTGCAAGGAAGCCCCGTGTGTTTGTATATACATTCC  
TGATGGGCACACAAAGGAAATGCCAACATCAGGGTCAAAGGAAAAGACCAAAGTAGAAGCCACAAAAAATGAGAC  
CTCTGCTCCTTTTAAAGAAAGACCAACACCTTCTCTGAATAATAATTGTACTACATCTGAGGATTCCTTGGTCCT  
TTACAATAGAGTGGCTGTTCAAGGAGATGTGGTTTCGTGAATTAAGCCAAAGAAAGCACCAGGAAGATGTAGA  
TGCAGCTGTAAACAGCTTTTGTCTTTGAAAGCTGAATATAAGGAGAAAAGTGGCCAGGAATATAAACCTGGAAA  
CCCTCCTGCTGAAATAGGACAGAATATTTCTTCTAATTCCTCAGCAAGTATTCTGGAAAGTAAATCTCTGTATGA  
TGAAGTTGCTGCACAAAGGGGAGGTGGTTTCGTAAGCTAAAAGCTGAAAAATCCCCTAAGXXXXXXXXXXXXXXXXX  
XX  
XX  
XXXXXXXXXXXXXXXXXXXXCTTCTCAAGGGGAAGTAGTTCGGAAACTTAAACTGAAAAAGCCCCAAGGATCAAGT  
AGATATAGCTGTTCAAGAACTCCTTCAGCTAAAGGCACAGTACAAGTCTTTGATAGGAGTAGAGTATAAGCCTGT  
GTCGGCCACTGGAGCTGAGGACAAAGATAAGAAGAAGAAAGAAAAAGAAATAAATCTGAAAAGCAGAATAAGCC  
TCAGAAACAAAATGATGGCCAAAGGAAGACCTTCTAATAACCAAGGAGGTGGGCTCTCATCAAGTGAGCAGG  
AGAAGGGCAGGGGCTTAAGAAACAGACCAGGTTGGGTCTTGAGGCAAAAAAGAAAGAAATCTTGCTGATTGGTA  
TTCTCAGGTCATCACAAAGTCAGAAATGATTGAATACCATGACATAAGTGGCTGTTATATTCTTCGTCCTGGGC  
CTATGCCATTTGGGAAGCCATCAAGGACTTTTTTGATGCTGAGATCAAGAACTTGGTGTGAAAAGTCTACTT  
CCCCATGTTTGTGTCTCAAAGTGCATTAGAGAAAGAGAAGACTCATGTTGCTGACTTTGCCCCAGAGGTTGCTTG  
GGTTACAAGATCTGGCAAAACCGAGCTGGCAGAACCAATTGCCATTCTGCTACTAGTGAACAGTAATGTATCC  
TGATATGCAAAATGGGTACAATCACACAGAGACCTGCCCATCAAGCTCAATCAGTGGTGCAATGTGGTGCCTTG  
GGAATTCAAGCATCCTCAGCCTTTCTACGTACTCGTGAATTTCTTTGGCAGGAAGGGCACAGTGTCTTGTCTAC  
CATGGAAGAGGCAGCGGAAGAGGTCTTGAGATACTTGACTTATATGCTCAGGTATATGAAGAAGTCTGGCAAT  
TCCTGTTGTTAAAGGAAGAAAGACGGAAGGAAAAATTTGCAGGAGGAGACTATACAACATAAGAGCATT  
TATATCTGCTAGTGAAGAGCTATCCAGGGAGGAACATCACATCATTTAGGGCAGAATTTTCCAAAATGTTTGA

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**FIGURE 598B**

AATCGTTTTTGAAGATCCAAAGATACCAGGAGAGAAGCAATTTGCCTATCAAACTCCTGGGGCCTGACAACTCG  
AACTATTGGTGTTATGACCATGGTTCATGGGGACAACATGGGTTTAGTATTACCACCCCGTGTAGCATGTGTTCA  
GGTGGTGATTATTCCTTGTGGCATTACCAATGCACCTTCTGAAGAAGACAAAGAAGCGCTGATTGCAAAATGCAA  
TGATTATCGAAGGCGATTACTCAGTGTTAACATCCGCGTTAGAGCTGATTTACGAGATAATTATTCTCCAGGTTG  
GAAATTCAATCACTGGGAGCTCAAGGGAGTTCCCATTAGACTTGAAGTTGGGCCACGTGATATGAAGAGCTGTCA  
GTTTGTAGCCGTCAGACGAGATACTGGAGAAAAGCTGACAGTTGCTGAAAATGAGGCAGAGACTAAACTTCAAGC  
TATTTTGAAGACATCCAGGTCACCCCTTTTCAAGGGCTTCTGAAGACCTTAAGACTCATATGGTTGTGGCTAA  
TACAATGGAAGACTTTCAGAAGATACTAGATTCTGGAAAGATTGTTTCAGATTCCATTCTGTGGGAAATTGACTG  
TGAGGACTGGATCAAAAAGACCACTGCCAGGGATCAAGATCTTGAACCTGGTGCTCCATCCATGGGAGCTAAAAG  
CCTTTGCATCCCCCTTCAAACCACTCTGTGAAGTGCAGCCTGGAGCCAAATGTGTCTGTGGCAAGAACCCTGCCAA  
GTACTACACCTTATTTGGTCGCAGCTACTGAGGGATGAACGAAAGCCCCCTCTTCAACTCCTCTCACTTTTAAA  
GCATTGATATTAGTATCTTCTCAGATACAGACCGTTTATGATTTTTTAAAAAGTAAAAGTTCTAAAATGAAGTC  
ACACAGGACAATTATTCTTATGCCTAAGTTAACAGTGGATAAAAGACTTTTCTGTAAACAACTCCAGTAATAAAT  
ATCATGAACTA

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**FIGURE 599A**

AGTAGCTGCGGCGCAGGGGCGGAGCGAAGGCTGCGGGCGGCGTGGGTACGCGCACACGTTGCATCTTCTTCCTTT  
CGCGGGGTCTCCGTAGTTCTGGCACGAGCCAGGCGTACTGACAGGTGGACCAGCGGACTGGTGGAGATGGCGAC  
GCTCTCTCTGACCGTGAATTCAGGAGACCCCTCCGCTAGGAGCTTTGCTGGCAGTAGAACACGTGAAAGACGATGT  
CAGCATTTCGGTTGAAGAAGGGAAAGAGAATATTCTTCATGTTTCTGAAAATGTGATATTACAGATGTGAATTC  
TATACTTCGCTACTTGGCTAGAGTTGCAACTACAGCTGGGTTATATGGCTCTAATCTGATGGAACATACTGAGAT  
TGATCACTGGTTGGAGTTCACTGCTACAAAATTATCTTCATGTGATTCCCTTACTTCTACAATTAATGAACTCAA  
TCATTGCCTGCTCTGAGAACATACTTAGTTGGAACTCCTTGAGTTTAGCAGATTTATGTGTTTGGGCCACCCCT  
AAAAGGAAATGCTGCCTGGCAAGAACAGTTGAAACAGAAGAAAGCTCCAGTTCATGTAAAACGTTGGTTTGGCTT  
TCTTGAAGCCCAGCAGGCCTTCCAGTCAGTAGGTACCAAGTGGGATGTTTCAACAACCAAAGCTCGAGTGGCACC  
TGAGAAAAAGCAAGATGTTGGGAAATTTGTTGAGCTTCCAGGTGCGGAGATGGGAAAGGTTACCGTCAGATTTC  
TCCAGAGGCCAGTGGTTACTTACACATTGGGCATGCAAAAGCTGCTCTTCTGAACCAGCACTACCAGGTTAACTT  
TAAAGGGAAACTGATCATGAGATTTGATGACACAAATCCTGAAAAAGAAAGGAAGATTTTGAGAAGGTTATCTT  
GGAAGATGTTGCAATGTTGCATATCAAACCAGATCAATTTACTTATACTTCGGATCATTTTGAACTATAATGAA  
GTATGCAGAGAAGCTAATTAAGAAGGGAAGGCTTATGTGGATGATACTCCTGCTGAACAGATGAAAGCAGAACG  
TGAGCAGAGGATAGACTCTAAACATAGAAAAAACCTATTGAGAAGAATCTACAAATGTGGGAAGAAATGAAAA  
AGGGAGCCAGTTTGGTCAGTCCTGTTGTTTGGCAGCAAAATTGACATGAGTAGTAACAATGGATGCATGAGAGA  
TCCAACCCCTTTATCGCTGCAAAATTCACCACATCCAAGAACTGGAATAAATACAATGTTTATCCAACATATGA  
TTTTGCCTGCCCCATAGTTGACAGCATCGAAGGTGTTACACATGCCCTGAGAACAACAGAATACCATGACAGAGA  
TGAGCAGTTTTACTGGATTATTGAAGCTTTAGGCATAAGAAAACCATATATTGGGAATATAGTCGGCTAAATCT  
CAACAACACAGTGCTATCCAAAAGAAAACCTCACATGGTTTGCAATGAAGGACTAGTAGATGGATGGGATGACCC  
AAGATTTCTACGGTTTCGTGGTGTACTGAGAAGAGGGATGACAGTTGAAGGACTGAAACAGTTTATTGCTGCTCA  
GGGCTCCTCACGTTCACTGCTGAACATGGAGTGGGACAAAATCTGGGCGTTTAAACAAAAGGTTATTGACCCAGT  
GGCTCCACGATATGTTGCATTACTGAAGAAAGAAGTGATCCAGTGAATGTACCTGAAGCTCAGGAGGAGATGAA  
AGAAGTAGCCAAACACCCAAAGAATCCTGAGGTTGGCTTGAAGCCTGTGTGGTATAGTCCCAAAGTTTTTCATTGA  
AGGTGCTGATGCAGAGACTTTTTTCGGAGGGTGAGATGGTTACATTTATAAATTGGGGCAACCTCAACATTACAAA  
AATACACAAAATGCAGATGGAAAAATCATATCTCTTGATGCAAAAGTTGAATTTGGAAAACAAAGACTACAAGAA  
AACCCTAAGGTCACTTGGCTTGCAGAGACTACACATGCTCTTCTATTCCAGTAATCTGTGTCACTTATGAGCA  
CTTGATCACAAAGCCAGTGCTAGGAAAAGACGAGGACTTTAAGCAGTATGTCAACAAGAACAGTAAGCATGAAGA  
GCTAATGCTAGGGGATCCCTGCCTTAAGGATTTGAAAAAAGGAGATATTATACAACTCCAGAGAAGAGGATTCTT  
CATATGTGATCAACCTTATGAACCTGTTAGCCCATATAGTTGCAAGGAAGCCCCGTGTGTTTTGATATACATTCC  
TGATGGGCACACAAGGAAATGCCAACATCAGGGTCAAAGGAAAAGACCAAAGTAGAAGCCACAAAAATGAGAC  
CTCTGCTCCTTTTAAAGAAAGACCAACACCTTCTCTGAATAATAATTGTACTACATCTGAGGATTCTTGGTCCT  
TTACAATAGATGGCTGTTCAAGGAGATGTGGTTTCGTGAATTAAAAGCCAAGAAAGCACCAAGGAAGATGTAGA  
TGCAGCTGTAAAACAGCTTTTGTCTTTGAAAGCTGAATATAAGGAGAAAAGTGGCCAGGAATATAAACTGGAAA  
CCCTCCTGCTGAAATAGGACAGAATATTTCTTCTAATTCCTCAGCAAGTATTCTGGAAAGTAAATCTCTGTATGA  
TGAAGTTGCTGCACAAGGGGAGGTGGTTCTGAAGCTAAAAGCTGAAAAATCCCCTAAGGCTAAAATAAATGAAGC  
TGTAAGATGCTTACTGTCCCTGAAGGCTCAGTATAAAGAAAAAACTGGGAAGGAGTACATACCTGGTCAGCCCCC  
ATTATCTCAAAGTTTCGATTCAAGCCCAACCAGAAATCTGAACCTGCTGGTTTAGAAAACACCAGAAGCGAAAGT  
ACTTTTGGACAAAGTAGCTTCTCAAGGGGAAGTAGTTCGGAAACTTAAACTGAAAAAGCCCCTAAGGATCAAGT  
AGATATAGCTGTTCAAGAACTCCTTCAGCTAAAGGCACAGTACAAGTCTTTGATAGGAGTAGAGTATAAGCCTGT  
GTCGGCCACTGGAGCTGAGGACAAAGATAAGAAGAAGAAAGAAAAAGAAATAAATCTGAAAAGCAGAATAAGCC  
TCAGAAACAAATGATGGCCAAAGGAAAGACCCCTTCTAAAAACCAAGGAGGTGGGCTCTCATCAAGTGGAGCAGG  
AGAAGGGCAGGGGCCTAAGAAACAGACCAGGTTGGGTCTTGAGGCAAAAAAAGAAAGAAATCTTGCTGATTGGTA  
TTCTCAGGTCACTACAAAGTCAGAAATGATTGAATACCATGACATAAGTGGCTGTTATATTCTTCGTCCTGGGC  
CTATGCCATTTGGGAAGCCATCAAGGACTTTTTTGATGCTGAGATCAAGAACTTGGTGTGAAAACGCTACTT  
CCCCATGTTTGTGTCTCAAAGTGCATTAGAGAAAAGAAAGACTCATGTTGCTGACTTTGCCCCAGAGGTTGCTTG  
GGTTACAAGATCTGGCAAAACCGAGCTGGCAGAACCAATTGCCATTGCTCCTACTAGTGAAACAGTAATGTATCC  
TGCATATGCAAAATGGGTACAGTCACACAGAGACCTGCCCATCAAGCTCAATCAGTGGTGCAATGTGGTGCGTTG

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**FIGURE 599B**

GGAATTCAAGCATCCTCAGCCTTTCCTACGTACTCGTGAATTTCTTTGGCAGGAAGGGCACAGTGCTTTTGCTAC  
CATGGAAGAGGCAGCGGAAGAGGTCTTGAGATACTTGACTTATATGCTCAGGTATATGAAGAACTCCTGGCAAT  
TCCTGTTGTTAAAGGAAGAAAGACGGAAAAGGAAAAATTTGCAGGAGGAGACTATACAACTACAATAGAAGCATT  
TATATCTGCTAGTGGAAGAGCTATCCAGGGAGGAACATCACATCATTTAGGGCAGAATTTTCCAAAATGTTTGA  
AATCGTTTTTTGAAGATCCAAAGATACCAGGAGAGAAGCAATTTGCCTATCAAACTCCTGGGGCCTGACAACTCG  
AACTATTGGTGTATGACCATGGTTCATGGGGACAACATGGGTTTAGTATTACCACCCCGTGTAGCATGTGTTCA  
GGTGGTGATTATTCCTTGTGGCATTACCAATGCACTTCTGAAGAAGACAAAGAAGCGCTGATTGCAAAATGCAA  
TGATTATCGAAGGCGATTACTCAGTGTTAACATCCGCGTTAGAGCTGATTACGAGATAATTATTCTCCAGGTTG  
GAAATTCAATCACTGGGAGCTCAAGGGAGTTCCCATTAGACTTGAAGTTGGGCCACGTGATATGAAGAGCTGTCA  
GTTGTAGCCGTCAGACGAGATACTGGAGAAAAGCTGACAGTTGCTGAAAATGAGGCAGAGACTAACTTCAAGC  
TATTTTGAAGACATCCAGGTCACCCTTTTTCAAGGGCTTCTGAAGACCTTAAGACTCATATGGTTGTGGCTAA  
TACAATGGAAGACTTTCAGAAGATACTAGATTCTGGAAGATTGTTTCAGATTCCATTCTGTGGGAAATTGACTG  
TGAGGACTGGATCAAAAAGACCACTGCCAGGGATCAAGATCTTGAACCTGGTGCTCCATCCATGGGAGCTAAAAG  
CCTTTGCATCCCCCTTCAAACCACTCTGTGAAGTGCAGCCTGGAGCCAAATGTGTCTGTGGCAAGAACCCTGCCAA  
GTACTACACCTTATTTGGTTCGAGCTACTGAGGGATGAACGAAAGCCCCCTCTCAACTCCTCTCACTTTTTAAA  
GCATTGATATTAGTATCTTCTCAGATACAGACCGTTTTATGATTTTTTAAAAAGTAAAGTTCTAAAATGAAGTC  
ACACAGGACAATTATCTTATGCCTAAGTTAACAGTGGATAAAAGACTTTTCTGTAAACAACCTCCAGTAATAAAT  
ATCATGAACATAATATGGTTTAAAAAAAAAAAAAAAAAAAAAGG

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**FIGURE 600**

CCCAGGATGTAGAGCTGGCAGTGCCTGACGGCGCGTCTGACGCGGAGTTGGGTGGGGTAGAGAGTAGGGGGCGGT  
AGTCGGGGGTGGTGGGAGAAGGAGGAGGCGGCAAAATCACTTATAAATGGCGCGGAAGCAGGACCCGAAGCCTAAA  
TTCCAGGAGGGGTGAGCGAGTGCTGTGCTTTTCATGGGCCTCTTCTTTATGAAGCAAAGTGTGTAAAGGTTGCCATA  
AAGGACAAACAAGTGAAATACTTCATACATTACAGTGGTTGGAATAAAAATTGGGATGAGTGGGTTCCGGAGAGC  
AGAGTACTCAAATACGTGGACACCAATTTGCAGAAACAGCGAGAACTTCAAAAAGCCAATCAGGAGCAGTATGCA  
GAGGGGAAGATGAGAGGGGCTGCCCCAGGAAAGAAGACATCTGGTCTGCAACAGAAAAATGTTGAAGTGAAAACG  
AAAAAGAACAACAGAAAAACCTGGAAATGGAGATGGTGGCAGTACCAGTGAGACCCCTCAGCCTCCTTGGAAG  
AAAAGGGCCCCGGGTAGATCCTACTGTTGAAAATGAGGAAACATTTCATGAACAGAGTTGAAGTTAAAGTAAAGATT  
CCTGAATAGCTAAAACCGTGGCTTGTGATGACTGGGACTTAATTACCAGGCAAAAACAGCTCTTTTATCTTCCT  
GCCAAGAAGAATGTGGATTCCATTCTTGAGGATTATGCAAATTACAAGAAATCTCGTGGAACACAGATAATAAG  
GAGTATGCGGTAAATGAAGTTGTGGCAGGGATAAAAGAATACTTCAACGTAATGTTGGGTACCCAGCTACTCTAT  
AAATTTGAGAGACCACAGTATGCCGAAATTCCTGCAGATCATCCCCATGCACCCATGTCCCAGGTGTATGGAGCG  
CCACATCTCCTGAGATTATTTGTACGAATTGGAGCAATGTTGGCCTATACACCTCTGGATGAGAAGAGCCTTGCT  
TTATTACTCAATTATCTTCACGATTTCCCTAAAGTACCTGGCAAAGAATTCTGCAACTTTGTTTAGTGCCAGCGAT  
TATGAAGTGGCTCCCTCCTGAGTACCATCGGAAAGCTGTGTGAGAGGCACTCTCACTCACTTATGTTTGGATCTCC  
GTAAACACATTTTGTTCCTAGTCTATCTTGTACAAACAATGTGCTTTGAAGATGTTAGTGTATAACAATTGA  
TGTTTGTTTCTGTTTGATTTTAAACAGAGAAAATAAAAGGGGTAATAGCTCCTTTTTTCTTTTCTTTTTTTTT  
TCATTTCAAAGTTGCTGCCAGTGTTCATGATGGACAACAGAGGGATATGCTGTAGAGTGTATTATGCCTAG  
TTGACAAAGCTGCTTTTGAATGCTGGTGGTTCTATTCCCTTTGACACTATGCACCTTTATAATACATGTTAATGCT  
ATATGACAAAATGCTCTGATTCTAGTGCCAAAGGTTCAATTCAGTGTATATAACTGAACACACTCATCCATTG  
TGCTTTTTTTTTTTTTTTTATGGTGCTTAAAGTAAAGAGCCCATCCTTTGCAAGGCATCCATGTTGTTACTTAGG  
CATTTTATCTTGGCTCAAATTGTTGAAGAATGGTGGCTTGTTCATGGTTTTTGTATTTGIGTCTAATGCACGTT  
TTAACATGATAGATGCAATGCACTGTGTAGCTAGTTTTCTGGAAAAGTCAATCTTTAGGAATTGTTTTTCAGAT  
CTTCAATAAATTTTTTCTTTAAATTC

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**FIGURE 601**

GAGGAGGCGGCAAATCACTTATAAATGGCGCGGAAGCAGGACCCGAAGCCTAAATTCCAGGAGGGTGAGCGAGTG  
CTGTGCTTTCATGGGCCTCTTCTTTATGAAGCAAAGTGTGTAAAGGTTGCCATAAAGGACAAACAAGTGAAATAC  
TTCATACATTACAGTGGTTGGAATAAAAATTGGGATGAGTGGGTTCCGGAGAGCAGAGTACTCAAATACGTGGAC  
ACCAATTTGCAGAAACAGCGAGAACTTCAAAAAGCCAATCAGGAGCAGTATGCAGAGGGGAAGATGAGAGGGGCT  
GCCCCAGGAAAGAAGACATCTGGTCTGCAACAGAAAAATGTTGAAGTGAAAACGAAAAAGAACAAACAGAAAACA  
CCTGGAATGGAGATGGTGGCAGTACCAGTGAGACCCCTCAGCCTCCTTGGAAGAAAAGGGCCCGGGTAGATCCT  
ACTGTTGAAAATGAGGAAACATTCATGAACAGAGTTGAAGTTAAAGTAAAGATTCCTGAATAGCTAAAACCGTGG  
CTTGTGATGACTGGGACTTAATTACCAGGCATTATGCAAATTACAAGAAATCTCGTGGAACACAGATAATAAG  
G

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**FIGURE 602**

AATCACTTATAAATGGCGCGGAAGCAGGACCCGAAGCCTAAATTCCAGGAGGGTGAGCGAGTGCTGTGCTTTTCAT  
GGGCCTCTTCTTTATGAAGCAAAGTGTGTAAAGGTTGCCATAAAGGACAAACAAGTGAATACTTCATACATTAC  
AGTGGTTGGAATAAAAAATTGGGATGAGTGGGTTCCGGAGAGCAGAGTACTCAAATACGTGGACACCAATTTGCAG  
AAACAGCGAGAACTTCAAAAAGCCAATCAGGAGCAGTATGCAGAGGGGAAGATGAGAGGGGCTGCCCCAGGAAAG  
AAGACATCTGGTCTGCAACAGAAAAATGTTGAAGTTACGAATTGGAGCAATGTTGGCCTATACACCTCTGGATGA  
GAAGAGCCTTGCTTTATTACTCAATTATCTTCACGATTTCTAAAGTACCTGGCAAAGAATTCTGCAACTTTGTT  
TAGTGCCAGCGATTATGAAGTGGCTCCTCCTGAGTACCATCGGAAAGCTGTGTGAGAGGCACTCTCACTCACTTA  
TGTTTGGATCTCCGTAAACACATTTTGTTCCTTAGTCTATCTCTTGTAACAACAATGTGCTTTGAAGATGTTAGT  
GTATAACAATTGATGTTTGTTCCTGTTTGATTTTAAACAGAGAAAAATAAAAGGGTAATAGCTCCTTTTTTCTT



**FIGURE 603**

TTTGTGCGCTCGGACCTTCGCCAGAGGGGCGGGGACATCATACGGTTGGGAGCCAGGCTCCGAAGCAAGGCGGAGA  
GCAGCGCTCCTGCGCCGCGGGCCCCGAGGGCGAGGGCGAACCGAGGGGGACGAGGAGGCGGCCCATCTGGAGC  
ACCTGGAGTACGCGGACGAGGCGGAGGCGGCGGCCGAGAGCGGGACGAGCGCGGCGGACGAGCGGGGCCCGGGA  
CCCCGGGCGCGCGGAGGGTGCCTTCGCCCTCTGCCCCAGCGCTACGAGCCACTGGAGGAGCCGGCGCCGAGCG  
AGCAGCCCAGGAAGAGGTACCGGAGGAAGCTGAAGAAGTACGGCAAGAATGTGCGGAAGGTCAATCATCAAAGGAT  
GCCGCTACGTGGTCAATCGGCCCTGCAAGGCTTCGCTGCAGCGCTACTCCGCCCGTTTTCGGGTAGCCACCAGCGTGG  
TATCCTTTCGTGCGCTTAATGGGAGCTGCTGTGGCAGGTGCCCCAGAGTGAACGGGAGCCCTGCTGTGGGAACTT  
TGTGAATCCTGGAGCATCTCAGACTTGAACACACAGCATATTTGGAAGAGAAAACATGCCTTTCTTTGTGTAATC  
ACATTAGTATGATGAGTGAGTCAATCCCTGCCCATCTGCTGAGCTTCTCACATCTCTCAGTCACACGTGGACCCAG  
TGGTCAATCCTGCGAGAGAATTCGGCGGAGGTTAGGTTTGGGAGTGGAGCTAGCGTGCTAAAGCCAGAGCCTTCAC  
GTGAAGGTGGCAGGCACTGGGGCGGAAGCCAACACTCAACAGATGCAAGCAGTGTGGGTGTGCAGCAGAACAGTG  
ATCTTGGGGGAGGAAGAGGATGTTACTAGAGTCAGATGATTTGCTGTATTCTCCTGAAAGGTGCTAGGCTGACAG  
GCGCTCACATTCTTGGCTGCCTCGGTTCTGAGGGCAGCTAAGGAGCTGTTTATTCTCAAGTCATGCTCCCCGA  
TCTCCTTCTCTACCACTCTGTCACCAGGAGTTTAAATTACAGGCTTGAGGAGAAGAAAGGAAGAAAAGATATCTT  
GATGCTTTGAAAACCTGTGTTGGCAGTGTGGCATGACTGTTTAAAGTAGATAAAACCTTGTCAATTTTACCCCATCC  
CTGCATGACTGTGAAGCTGGCGAGGAAGGAGGAAGAAGGCCAAGTTTCAAGTGCAGGCTGGGTGGCTGGGACAGGT  
TGGCTAAGGGACTACTCTGGAGGGCTCTTCTGCTTGGCATTGCCCACTTCGGCCAGCCACGTGTTTGCAGCGAC  
CAGAGTCCCTGCAAAGGTGTGGCTGGCTGTGGTCAGGGTGTACTAGCACCATCAGCGCACTCCCGCCATTGGCT  
CAGCTCCTCTCTGCCAGTCCAACATAAGAGTGCTTTGTCTGGGTGGGACATAGGGGCTGAGAGAGATGGGGGGAG  
ACATAACACCCAGGAATGAAAATACAGATTTAGAGAAGGAACCAAGTAAGTAGGAGACAGATGTGAAGGAAATGGA  
AATGAGGCAAGAGGACATTGGAAGAGAGAAGTTTGTCTGTCCAGGAGCCAGGTCTGGAGCATCAGTGTGAGGGAGT  
TCAGGTAGGCTGGGCCTGTGCCTCTAGGTAGGGACAAGGGAGGCTGGGTAGCCAGGGCTGGTGCTTAAAACCCCT  
GAGGCCATGAGCTCATTGGCTGCCTTTGTAGCATCCTGTCTTCTTCTGTGCTGCCTGGTTTGATCTCATCTCACC  
TGGATTCAAAGGGTAAGGTGGGCATGGGTCTTGGGCCTGACACCCACCAAGGATGACCTGTGGACTGCCATCGGA  
TGCTGAACAGGGAGATGAAAGGAGGTCTCTTACCATAACCCCTCTGCCAACCCCCAGTAGGCCACTGTTCTGAC  
TTTGTTTCCAGAATATCCAGAAATCCAAAGGGGCTGTTGCTGAACAGTCTGCAGGACCAGTGACAGACCTACCT  
GTTGTCCCAAGGCATACAAAGGAGGCCTCAACGCTCATGCTTCTCTAATCAAGCCCTACCAAGACAGACAGAAAG  
ACAGACAGAAAAAGGAAGGGGTAGAGGAGAAGGTTGAAGCTGTGGAGCTAGACTCTGCTTCACTTCTTGAAGCT  
TCAACTTCATGTGCAAGATTCACTGGGACCAATTCTTGCATTGTTAATATTGTGAGGAAAAGTGAAACAAGTG  
ATCTGGTTTTAGCCAGATGATGAAAGTGGATATGGCACATTTTCAACACTGTGAGATAATTACAGCTTGCCCCA  
CAACACTGGGTGTTGGAGAAAAGGAGAGATAGTCAATAGTGAAGAAAAGCCAAGCATAGTGAGTGGGAAGGAG  
AGTGAGAGCCTGTGAGGCTGCTGACGAGCCCCAGGCAGCCCAAGTTTCTCGTGGGGAGATGGAGGCAGAGCC  
CAGGGTAGGGGACAGAGCTGTGGGGCCTTTCCTTGCCTGGGAATCTGTCCCAGGAAGAGCTTCCCCACTCCCAT  
CCCCCAAATTGGAAAAACCGTACATTCAAGCCTGTTTGGCCCTGAAATTCTTAAAGATCTGGTTAAGAATTA  
CACTAATGTCAAAGTCAAACCTCCTAGGGGTTGTCTTGGGAGTCAGGTTACGGGTACAGAAGATGAATCTCA  
GATGTCACTCAACCTGAGCCGTCAATTCTCTGTGGCAGGGCTGCCCTGGGTTTCTCTTACTCAATCCCTGGAGTGT  
AAGCATTGTGATTGTGTACAGATTACCTTTTTACCTTTTCTTTCTTTTTTTTTCTTTTTTCAATATCAGTGCC  
CACACCTTACTGAGTATTGAGTTTTAGAGCTTTCGCTTGATGTGCTTGACCAAGAGACTTCTTTTGTATCCTTTT  
CTTGTCTTATGATGTAAATAAAAGCCTCGATTATGT

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**FIGURE 604**

MTVGARLRSKAESSLLRRGPRGRGRTEGDEEAAAILEHLEYADEAEAAAESGTSAADERGPGTRGARRVHFALLP  
ERYEPLLEPPAPSEQPRKRYRRKLKKYGKNVGKVIKGCYVVIGLQGFAAAYSAPFAVATSVVSFVR

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**FIGURE 605**

TCTAATACCTATTGATCTGTCACCTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTA  
ACATGCCCCTGATTCTACATTATGGTGAGTTCTATAATTATTTATTATATATTACAGTGTAATAATGGAAATA  
AAGCACCTAATAAATGTAAATGTGCTTAAATCTTTTGTCCCAGCTCCTACCTCCCGGCAGCCTCTCCAGGCCCAG  
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATACCCTACCTCAC  
GGCAGTCTCCGCAGATGAGCCTACTGCCTCACACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT  
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCTCACCAGGCCAGTTC  
ATGCTTCTTTGCAGCCTCTCCAGGCCAGCTCCTGCATCTTGGTGGCCCCCTCCAGGCCAGCCTCTGCCTCCCGT  
CGGCCTCTACAGTCCCAACATCTGCCTCACAGCAGATTCTTCAGGCCAGCATCTGCCTCACTGTGGACCCCCCA  
GACCCAGATGGTGTCTCACTGTGGCATCCTCAGGTGAAGCTCCTGCCTTTCTGCAGCCTCTCCAGGCCAGCTCC  
TCCTGCCTCCCAGTGGCCTCTTTCAGCCCAGCCCAGCTCATGCCTCCTGGCGGCCTTCCCAGGCCCTGCTTTTGA  
CTTTTGGTGGCCTCTGCAGGCCTCGACAAGGCCCGGCCTCCTGCCTCCCGAA

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**FIGURE 606**

GGCACGAGGGCTCTGTGGAGCTGCGCCTGCCAACTCATTGCTTTCTGCTGTGCTGTGATCCTGCAGTCAGTTGCC  
GCTGTTGCTACTGCAATCATTTGCACCAAAGTGGAGCCAGAGAAGTTCCCTCTTTTAACATAAAGAGTCAAGAAAT  
TGGAGCATGGGCTATGAGCAATGGAAACAATGATTTTGTGGTTCTGAGCAACAGCAGCATCGCAACCAAGTGTGCT  
AACCCGAGTCCCCTCACCCCTGTGATGGAGACCATGCAGCCAGCAGCTCACACCCAAAGAAGCAACAAGAACA  
AAAGTGAGTCCAAATGGATGCCTGCAACTTAATGGCACGGTCAAATCATCCTTTCTGCCTTTAGACAACCAAAGA  
ATGCCTCAGATGTTACCCCAATGCTGCCATCCTTGCCCATACCATCACCCCTTTGACTAGCCATAGCAGTCACCAA  
GAGTGCCATCCCGAGGCTGGCCCTGCAGCACCCCTCTGCTTTGGCCTCGTGTTGCATGCAGCCACACTCCGAGTAT  
TCTGCATCTCTTTGTCCAAATCATTACCTGTGTATCAGACTACGTGCTGTCTTCAGCCCTCTCCATCCTTCTGC  
CTGCATCATCCGTGGCCTGACCATTTTCAGCATCAGCCTGTGCAACAGCACATAGCCAACATAAGACCATCCAGA  
CCTTTCAAGTTGCCAAAAAGTTATGCAGCCCTGATAGCCGACTGGCCGGTGGTGGTCTTGGGCATGTGCACCATG  
TTCATCGTAGTCTGTGCTTGGTTGGAGTATTAGTGCCAGAGCTCCCTGACTTCTCTGATCCATTGCTGGGTTTT  
GAACCAAGAGGAACAGCAATAGGCCAGAGATTGGTCACATGGAATAATATGGTGAAAAATACAGGATACAAAGCA  
ACATTAGCAAATTATCCCTTTAAATATGCAGATGAACAAGCCAAAAGCCATCGGGATGATAGATGGTCAGATGAT  
CATTATGAAAGAGAGAAAAGAGAAGTTGACTGGAACCTCCACAAGGACAGCTTTTTCTGCGACGTTCCAAGTGAC  
CGATATTCCAGAGTGGTATTTACTTCATCTGGAGGGGAGACATTATGGAATTTACCTGCAATTAAATCAATGTGC  
AATGTAGATAATTCCAGGATCAGATCTCATCCCAGTTTGGTGATCTCTGCCAGAGGACCACTGCTGCCCTCCTGC  
TGCCCCAGCTGGACACTGGGAACTACATCGCCATTCTGAAACAATAGATCGTCCTGTCAGAAAATAGTTGAGCGA  
GACGTTTCTCATACCTTGAAGCTGCTTCGGACTTGTGCCAAACACTACCAAAATGGCACTCTGGGGCCAGACTGC  
TGGGACATGGCAGCCAGAAGAAAGGACCAGCTCAAGTGACCAATGTGCCACGCAAATGTACCAAGTACAATGCT  
GTGTACCAGATCCTCCATTACTTGGTGGACAAAGACTTTATGACCCCAAAGACGGCTGACTATGCCACGCCAGCT  
TTAAAATACAGCATGCTCTTCTCTCCACAGAGAAAGGGGAGAGCATGATGAACATTTACTTGGACAACCTTTGAA  
AACTGGAACCTTCTGACGGCGTGACTACCATCACCGGATTGAGTTTGGTATCAAACACAGTTTGTTCAGGAT  
TATCTTCTAATGGATACTGTGTATCCTGCCATAGCCATTGTGATTGTCCTTTTAGTTATGTGTGTCTACACCAAG  
TCCATGTTTATCACTCTGATGACAATGTTTGCAATAATCAGTTCTTTGATTGTTTCCTTAAAAAAAAAAAAAAAAAA  
A

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**FIGURE 607**

MAMSNNGNDFVVLNSSSIATSAANPSPLTPCDGDHAAQQLTPKEATRTKVSPNGCLQLNGTVKSSFLPLDNQRMF  
QMLPQCCHPCPYHHPLTSHSSHQECHPEAGPAAPSALASCCMQPHSEYSASLCPNHSPVYQTTCCCLQPSPSFCLH  
HPWPDHFQHPVQQHIANIRPSRPFKLPKSYAALIADWPVVVLGMCTMFIVVCALVGVLVPELPDFSDPLLGFEP  
RGTAIGQRLVTWNNMVKNTGYKATLANYPFKYADEQAKSHRDDRWSDDHYEREKREVDWNFHKDSFFCDVPSDRY  
SRVFTSSGGETLWNLPAIKSMCNVDNSRIRSHPOFGDLCQRTTAASCCPSWTLGNYIAILNNRSCQKIVERDV  
SHTLKLRLTCAKHYQNGTLGPDWCWMAARRKDQLKCTNVPRCKTKYNAVYQILHYLVDKDFMTPKTADYATPALK  
YSMLFSPTEKGESMMNIYLDNFENWNSSDGVTTITGIEFGIKHSLFQDYLLMDTVYPAIAIVIVLLVMCVYTKSM  
FITLMTMFAISSLIVS

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**FIGURE 608**

GCTTCCGCCTCGGCTCCTCTTCTGCGGGCATCCGGGATCCCTACGTCCCGCGTCCCCGAGCGCTCGGAGCCTA  
CGCGCCCAGCGCTACCGAAACCCAGAGTCTGCGCCCTGGAGTCCCCGCGCCCCGAGCCCCGAGCACCCGGGAGT  
CCCCGAGCCTCGCGCCCCGGAGTGCCCGAGCCTGCGCCGCGCCGACCCCGGATACCCCGGGTCCCCGCGAGCTGCCGA  
GGCCGCCCCGCGCCGCCCGCGGGACAGTACCGCCTTCCTCCCTCTGTCCGCGCCATGGCCGCCCCCGACCTGTC  
CACCAACCTCCAGGAGGAGGCCACCTGCGCCATCTGCCTCGACTACTTCACGGATCCGGTGATGACCGACTGCGG  
CCACAACCTTCTGCGCGAGTGTCATCCGGCGCTGTGCGGGCCAGCCCGAGGCCCGTACGCGTGCCCCGAGTGCCGC  
GAGCTGTCCCCGAGAGGAACCTGCGGCCCAACCGCCCGCTTGCTAAGATGGCCGAGATGGCGCGGCGCCTGCAC  
CCGCCGTGCGCGGTCCCGCAGGCGTGTGCCCCGCGACCGCGAGCCACTGGCCGCTTCTGTGGCGACGAGCTGCG  
CCTCCTGTGTGCGGCCCTGCGAGCGCTCTGGGGAGCACTGGGCGCACCGCGTTGGCCGCTGCAGGACGCGGCCGAA  
GACCTCAAGGCGAAGCTGGAGAAGTCACTGGAGCATCTCCGGAAGCAGATGCAGGATGCGTTGCTGTTCCAAGCC  
CAGGCGGATGAGACCTGCGTCTTGTGGCAGAAGATGGTGGAGAGCAGCGGCAGAACGTGCTGCGTGAGTTGAGC  
GTCTTCGCGCTTTGCTGGCAGAGGGAGGGACAGCAGCTGCTGCAGAGGCTGGAGAGGAGGAGCTGAAGGTGCTGC  
CCCGGCTGCGGGAGGCGCAGCCACCTAGGCCAGCAGAGCGCCACCTAGCTGAGCTCATCGCCGAGCTCGAGAG  
GCCGCTGCCAGCTGCCTGCGCTGGGGCTGCTGCAGGACATCAAGGACGCCCTGCGCAGGGTCCAGGATGTGAAGC  
TGCAGCCCCCAGAAGTTGTGCTATGGAGCTGAGGACCGTGTGCGAGGGTCCCGGGACTGGTAGAGACACTGCGGA  
GGTTTCGAGGGGACGTGACCTTGGACCCGGACACCGCCAACCTGAGCTGATCCTGTCTGAAGACAGGCGGAGCG  
TGCAGCGGGGGACCTACGGCAGGCCCTGCCGGACAGCCAGAGCGCTTTGACCCCGGCCCTGCGTGCTGGGCC  
AGGAGCGCTTACCTCAGGCCGCCACTACTGGGAGGTGGAGTTGGGGACCGCACCACTGAGCTGGGCCCTGGGGGTGT  
GCAGGGAGAAGCTGAACAGGAAGGAGAAGGGCGAGCTGTCCGCGGGCAACGGCTTCTGGATCCTGGTCTTCTTG  
GGAGCTATTACAATTCTCGGAACGGGCCCTTGGCTCCACTCCGGGACCCACCCAGGCGCGTGGGGATCTTTCTGG  
ACTACGAGGCTGGACATCTCTTTCTACAGTGCCACCGATGGGTCACTGCTATTATCTTTCCCGAGATCCCT  
TCTCGGGGACGCTGCGGCCCTCTTCTACCCCTGTCCAGCAGCCCGACCCGATGACTATCTGCCGSCCGAAAG  
GTGGGTCCGGGGACACCTGGCTCCCCAGTGACTCGGGCCCTCCTGGAGGAGTCTGTGCTCTCTGCCCCCTC  
CAGGCCACTGAGTGTGTTTGGCCACTTGGAGGACCTGGGAGGAGGGAGTGTGCTTTGAGCAAGAGGAGGAATC  
CTGGTGCTTTCTGAGCCTGCGTGGGAGAACCCCAATTCTAGCACTCCAGGAACTGTGGGAGAGTGTGGGGCAG  
GCTCCGTCTCTCCCTGGGAGACCCCTCCAGCCACCGGGTGCCACTTAATGCCAACAGCCCTTACCAAAGCTGGGAG  
CCCCATTGCCCCGGCAGCTCTGGCCTGTGGTTCCAGAAGCTGAGAAAATCCACTGGGGCTTGAGAGATCCAGGG  
TTCACCTAAGCTGCACAGTTCCTGCAGCTTTGTGAGCCCCCTGAAAGTCTTGTGTACCCACCTCTGAAGATGCT  
GGGGAAGGCAGCTGGGATGGGAGCCAGCCCATGCCTGTCTGTGACCCACAGTGGGTGAGAGCCCGTCACAGTC  
CTGGGTGTGGCTGCTCTGGAAGAATTAGGAGGCAGCCATAATAAGAGTCTTCAGAGAGATGATGGGAGGGGCCAG  
TGAGGACAGGAACAGAGAGTAGATGTCTATAATAAAGGGGCTTCTGGGAGGTGCTGGGCACAGATGTCTGTTC  
AGCAGGTGTGTGGGCCCTAGAGGAGAGAGCAGAGCCAGAAATGTCTTTTGAGGCCACGTTCTGACTTGAAGCT  
TTCGTGGGCATGTGTCCATTGGGTTTTGCCCTTGCAAAGGCTTCTAGGTCTCCAGTGGCCCTCAGGACCCAGG  
GTCCAGCTGCTGCTTGGGGATGTGCACTGCTGCGCCGGCCTTGCACTCTCTTACCCTGGGGAGGAACAGTGGC  
TTCTCAGAGCCTGGGGCATACAGAAGAAGGCAGGAGTTGATTTTGTGTTGGGTTTGGGGTTTTCTTGTCTCAA  
GGTACTGTTCTGTTTCTTTACCCCTCTGCTTATTTATTGTAAGCATTCCACGTAAATAAACTTTGGCTGT  
TGTCTAC

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**FIGURE 609**

MELRTVCRVPGLVETLRRFRGDVTLDPDTANPELILSEDRRSVQRGDLRQALPDSPERFDPGFCVLGQERFTSGR  
HYWEVEVGDA PAGPWGCAGRT

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**FIGURE 610**

CCGCAGGCAGTAGAGTGAAGCGCGCAGCTGCCAGGACTTGCGCGGTGACGTGCGCCGCTGCCAGGACCTTGCAGG  
TGGAGAGCATAGTTGCCAAAATCAAGGCGGAGGAGCGCACCGCCGCTAGGATCCAGGCGGAGAAGCCCACCGCGG  
CCAGGACCTAAGGATGCAGTACACTGCTGCCAGGATCTTGTCTGTGGAGCGCAGCGCGGCCAGGACCTCCGGCTG  
CAGCACACCGCTGCCAGGATCTTATCGGCAGAGCGCTCCGCGGTCCGGACCCCGCCCGTGC GCGTCCCCGACCC  
CGCCCCGTGCGCGTCCCCGGCGTTGGCGTCTTCGTCCTGTTGCTGGTCTCCGTCCGGTCCGGCGCCGTCTAGGTC  
TCCGGCCCTCCCCAGCCGCTCCTGCGCCCTTGCCGGCCCCGCGCCCGCAGCCCTGGCGCTCCCTGCGGGCCCCG  
CCGAGGCCCGCTGCGCCCTGTGCCAGCGCGCGCCCCGGGAACCGGTGCGCGCCGACTGCGGCCACCGCTTCTGTC  
GGCGTGCCTGGTGCCTTCTGGGCCGAGGAGGACGGGCCCTTCCCGTGC CCGAGTGC GCGGACGACTGCTGGC  
AGCGCGCCGTGGAGCCCGGCAGGCCCCGCTCAGCCGCGCCTTCTGGCGCTCGAGGAGGCGGCGCGGCGCCCCG  
CGCGCAGCGCCCGGCCAGCGAGGCGCGCTGCAGCTGCTGTGCCGCGCCGACGCCGGCCCGCTCTGCGCCGCCT  
GCCGTATGGCTGCGGGCCCCGAGCCGCCCGAGTGGGAACCGCGCTGGAGGAAGGCGCTGCGCGGAAGGAGAACA  
AGGGGTCTGTGGAATCATGAGAAAGGACTTGAATGACGCCCGGACCTGCATGGCCAGGCAGAGTCAGCAGCTG  
CAGTGTGGAAGGGACACGTGATGGACCGTAGGAAGAAGGCACTGACCGACTACAAGAAGCTGCGGGCCTTCTTTG  
TGGAGGAGGAGGAGCATTTCCTGCAGGAGGCTGAGAAGGAGGAGGGGCTCCCTGAGGACGAGCTGGCTGACCCCA  
CTGAGCGGTTTCAAGTCACTGCTGCAGGCGGTCTCGGAGCTGGAGAAGAAGCATCGCAACCTGGGCCTCAGCATGC  
TGCTGCAGTGATGGCGCAACCCGTGGCAGTCCCAGAGCTGGAGGCAGGAGGATGGATCCTCATCTCCATGGGAA  
GTGTCAGCGTGTGGCTGCCAGGGAAGCGTGGCAGGCGCCTGGCCTTGGGTCCATCTACATAGTTGCGTGTTCAA  
CAATGTCCATTTATCCTTACCCCGAGGCGTGTTCCTGGGGGCTGCAAACACCTCCCTGTGCTCCACCTGCCTCCG  
CAGAAGGAAGCCTCTTTCTCTGTTTCCCTGGGTGAGGGGGCTGGCAGGTGGCTAACCCCATTTAGCATCTCCAGG  
CCCTGCCATCGTGTCTCATCTTGCTGTTATCTCTAGCTCTTCCCTCCTCCCATTTCTTTAGTAGTTGAATTTT  
GCAAAGCTTGTAGCAGTAGCTCAGTTGCCTGCAGCATCCTTGTGTGTAGATAAATTAGTCGACAGAACTCAGCA  
CTGGGGACAGGATTGCAAAGTCGGGGACATAGATGCAGACAGTTGTTGAGATTGGGGATAGCCGGGCTTGTGAG  
CGGTGCCCCATTTCCAGATGAAGCCTTTCAGCCCTTCTGAGTCCCCGGCCCTTGGTGCATGTCTGTGAGTTTGAC  
CTGCCCAGCGTGTGGGCTGGCTCAATGCTGAATAAAGTGGGTTTGTGTGAGCTCGTTTGCTTCGCTCCGTGTGT  
CCACCTGGCCTCTTCCCCCTGCCCTGGCCACCCTCCAGTGTCAAAGGAACTTCCTCGTGACACGTGCTAAAGCA  
TGGTGAGGAGGACTTTGATTGGGACCATTGAGATGGGTGTGGGACCCTTTCCTTGGGGCCTGGGGGGAGATGGGG  
CTCCACCCCGACGTAGCAGGGCAGGGTTGGAGGAGCAGGAGCAGTATAGGGTCCATGGGTGGGAATGACTGTG  
AGGAGACATCAGGGCTGAGGGGGCTCTGGCTAAACCCACCTCACAGAGTCCTTGCTGCAGGCAGGCAGGGCGATC  
AGA



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**FIGURE 611**

MQYTAARILSVERSAARTSGCSTPLPGSYRQSAPRSGPRPVRVPDPAPCASPALASSCCWSPSGRRPSRSPALP  
SRSCALAGFAARSPGAPCGPRRGRLRPVPARAPGTGARRLRPPLLSGVRGALLGRGGRALPVPRVRRLLAARRG  
ARQAPAQPPPSGARGGGRGARARRPGQRGAAAAVPRRRRPA LRRLPYGCGPRAARVGTALEEGAARQGEQGVCG  
NHEKGLE

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**FIGURE 612**

GGCACGAGGCGCTGGCCGGGCTGGCTGCGGCCGCCCTGGGCCGGGCCCCACCGGACGGCTTGCTCTGCTCTTTAC  
CTGGGGTTGCTGTGCGAGGACCCTGTGCAAGACTCGGCCGTTTTTCTTTCTCCCTGATGGACAGACCCAAACATA  
GCCGCGCAGCATCGTGAAGGGCTGGGGCCTTCACTCCTCTGTGGCTCTGGAAGAGCCCGATTTCCTCAGGAGGCA  
TGTCGGGCCCCAGGCCTGTGGTGCTGAGCGGGCCTTCGGGAGCTGGGAAGAGCACCTGCTGAAGAGGCTGCTCC  
AGGAGCACAGCGGCATCTTTGGCTTCAGCGTGTCCCATACACGAGGAACCCGAGGCCCGGCGAGGAGAACGGCA  
AAGATTACTACTTTGTAAACAGGGAGGTGATGCAGCGTGACATAGCAGCCGGCGACTTCATCGAGCATGCCGAGT  
TCTCGGGGAACCTGTATGGCACGAGCAAGGTGGCGGTGCAGGCCGTGCAGGCCATGAACCGCATCTGTGTGCTGG  
ACGTGGACCTGCAGGGTGTGCGGAACATCAAGGCCACCGATCTGCGGCCCATCTACATCTCTGTGCAGCCGCCTT  
CACTGCACGTGCTGGAGCAGCGGCTGCGGCAGCGCAACACTGAAACCGAGGAGAGCCTGGTGAAGCGGCTGGCTG  
CTGCCCAGGCCGACATGGAGAGCAGCAAGGAGCCCGGCCTGTTTGATGTGGTCATCATTAAACGACAGCCTGGACC  
AGGCCTACGCAGAGCTGAAGGAGGCGCTCTCTGAGGAAATCAAGAAAGCTCAAAGGACCGGCGCCTTAGGGCTTGC  
TGTCTGTTCTCGGCACCCCGGGCCCATACAGGACCAGGGCAGCAGCATTGAGCCACCCCTTGCGAGGCGATACG  
GCAGCTCTGTGCCCTTGGCCAGCATGTGGAGTGGAGGAGATGCTGCCCCTGTGGTTGGAACATCCTGGGGTGACC  
CCCGACCCAGCCTCGCTGGGCTGTCCCTGTCCCTATCTCTCACTCTGGACCCAGGGCTGACATCCTAATAAAAT  
AACTGTTGGATTAGAAAAAAAAAAAAAAAAAAAA

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**FIGURE 613**

MSGPRPVVLSGPGAGKSTLLKRLQLQEHSGIFGFSVSHTRNPRPGEENGKDYYFVTREVMQRDIAAGDFIEHAE  
FSGNLYGTSKVAVQAVQAMNRCVLDVDLQGVNRKATDLRPIYISVQPPSLHVLEQRLRQRNTETEEESLVKRLA  
AAQADMESSEKPGFLFDVVIINDSLDQAYAEELKEALSEEIKKAQRTGA

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**FIGURE 614**

GGCACGAGGTCGGGCCTGGGTCCGACGGTAGTGGGTAGCGGGTCTCGGGTTGCGGGTTGCAGGTTGCAAGCCGCA  
GGCCCCAGGCAACTGCCCTTCCCGGCGCCATGTTTCGGCTCCAGTCGTGGAGGCGTGCGCGGCGGGCAGGACCAGTT  
CAACTGGGAGGACGTGAAGACTGACAAGCAGCGGGAGAATACTGGGCAACTCGCTGATGGCGCCGGTAGGCCG  
CTGGCAGAAGGGCCGCGACCTCACCTGGTACGCCAAGGGCCGGGCGCCATGCGCGGGCCCGAGCCGCGAGGAGGA  
ACTGGCAGCCGTGCGGGAGGCGGAGCGCGAGGCGCTGCTGGCCGCCCTTGGCTACAAGAACGTGAAGAAGCAGCC  
CACGGGCCTGAGCAAGGAGGACTTCGCGGAGGTCTGCAAGCGGGAAGGAGGCGACCCCGAGGAGAAGGGCGTGGA  
CCGGCTGCTGGGGCTGGGGAGCGCAAGTGGCTCCGTGGGCGCGTGCGCATGTCCCGAGAGGACAAGGAGGCCGC  
CAAACCTGGGGCTGTCTGTGTTACGCATCACCGCGTAGAGAGCGGCGGGCCCGGGACCTCGGCAGCCTCGGCCAG  
GAGGAAGCCGCGGGCGGAGGATCAGACGGAAGCAGTTGTGAGAGCCACAGGAAAAGCAAGAAGGAGAAGAAGAA  
AAAGAAAAGAGGAACACAAGAAAGAGAAGAAGAAGAAAGACAAAGAGCACAGGCGGCCAGCTGAGGCCACCTC  
CTCTCCACATCTCCTGAGAGGCCAGGCACCACCACCATGACTCCGACTCCAACCTCCCCCTGCTGTAAGAGGAG  
GAAGCGGGGACACAGTGGGGACAGGAGGAGCCCGTCTCGCAGGTGGCATGACAGAGGCTCTGAGGCCCTGATGGCT  
GGACCCTGCTCACTGCTGTTGTGGGACCCTGAACCCTCCCTTACCTTGCTTGCTCCTGCTCGGAAGCTCCTT  
GGGTGTGGGTGAAGCCCGAGGCTGCTCCTGTGGAAGTGGCTCTGGGCACCAGCCTGTGGGGCTAAAGACTTGACA  
GCTAGCTCTGGAGCAGCCGGCTTCCTGGAAAACCTCCAGGTTTCGCATACCAGGGATGGCCCTGGCTTGGCCTG  
CGAAGGTGAACCTGCCCAGATTTATCAGTAGAGGCTGGACTCCCTCTGTGTCCTGCCCATGGTTGCAGCAGCCAT  
GGGCCTATGAGCGGTCTAACTGTGGCCAAGTATGGTGACCTCTATTTTTCTTTATATTGACTCTTGTATTTCAA  
TAAATATATTTTAAAGGAAGGTAAAAA

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**FIGURE 615**

MFGSSRGGVRRGGQDQFNWEDVKTDKQRENYLGNSLMAVGRWQKGRDLTWYAKGRAPCAGPSREEELAAVREAER  
EALLAALGYKNVKKQPTGLSKEDFAEVCKREGGDPEEKGVDRLLGLGSASGSVGRVAMSREDKEAAKLGLSVFTH  
HRVESGGPGTSAASARRKPRAEDQTESSCESHRKSKKEKKKKKKRKHKKKKKKDKEHRRPAEATSSPTSPERPR  
HHHHDSDSNSPCCRRKRGRHSGDRRSPSRRWHDRGSEA

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**FIGURE 616**

AGGAAGCCCTGCTTGATGAGCATGAGGCTCCACGGGGCAGTGGCTGTGACGGTGAGTGCCACACAGAGCTGCCC  
ACACTGGTGGAGGGAAGGCAGGGAGATACCAGGACCATCCGGAAGGGGCTGAGTGTCATTTGACAGGTGCCATGT  
GAGCAGAGATGTGAAGGAGTGGCCCGGGACAATCAGGGCAGAATCCCTGAGGTGTCCCTGGCCAGTGTCTTCCA  
CCTGTCCACAAGCATGGGGAACATCTTCGCCAACCTCTTCAAGGGCCTTTTGGCAAAAAGAAATGCCGATCCT  
CATGGTGGGCTGGATGCTGCAGGGAAGACCAGATCCTCTACAAGCTTAAGCTGGGTGAGATCGTGACCACCAT  
TCCCACCATAGGCTTCAACGTGGAACCGTGGAGTACAAGAATCAGCTTCACTGTGTGGGACGTGGGTGGCCA  
GGACAAGATCCGCCCCCTGTGGCGCCACTACTTCCAGAACACACAAGGCCTGATCTTCGTGGTGGACAGCAATGA  
CAGAGAGCGTGTGAACGAGGCCCCGTGAGGAGCTCATGAGGATGCTGGCCGAGGACGAGCTCCGGGATGCTGTCTT  
CCTGGTGTTCGCCAACAAGCAGGACCTCCCCAACGCCATGAATGCGGCCGAGATCACAGACAAGCTGGGGCTGCA  
CTCACTACGCCACAGGAAGTGGTACATTCAGGCCACCTGCGCCACCAGCGGCGACGGGCTCTATGAAGGACTGGA  
CTGGCTGTCCAATCAGCTCCGGAACCAGAAAGTGAACGCGACCCCCCTCCCTCTCACTCCTCTTGCCCTCTGCTTT  
ACTCTCATGTGGCAAACGTGCGGCTCGTGGTGTGAGTGCCAGAAGCTGCCTCCGTGGTTTGGTCACCGTGTGCAI  
CGCACCGTGTGTAAATGTGGCAGACGCGAGCCTGCGGCCAGGCTTTTTATTTAATGTAAATAGTTTTTGTTCCTCA  
ATGAGGCAGTTTTCTGGTACTCCTATGCAATATTACTCAGCTTTTTTTATTTGTAAGAAAGAAAAATCAACTCACTGT  
TCAGTGCTGAGAGGGGATGTAGGCCCATGGGCACCTGGCCTCCAGGAGTCGCTGTGTGGGAGAGCCGGCCACGC  
CCTTGGCTTTTAGAGCTGTGTTGAAATCCATTTTGGTGGTTGGTTTTTAACCCAACTCAGTGCATTTTTTAAAT  
AGTTAAGAATCCAAGTCGAGAACACTTGAACACACAGAAGGGAGACCCCGCTAGCATAGATTGTCAGTTACGGC  
CTGGATGCCAGTCGCCAGCCCAGCTGTTCCTTCGGGAACATGAGGTGGTGGTGGCGCAGCAGACTGCGATCAAT  
TCTGCATGGTCACAGTAGAGATCCCCGCAACTCGCTTGTCTTGGGTACCCCTGCATTCCATAGCCATGTGCTTG  
TCCCTGTGCTCCCACGGTTCCCAGGGGCCAGGCTGGGAGCCACAGCCACCCCACTATGCCGAGGCCGCCCTAC  
CCACCTTCAGGCAGCCTATGGGACGCAGGGCCCCATCTGTCCCTCGGTGCGCGTGTGGCCAGAGTGGGTCCGTCG  
TCCCCAACACTCGTGTCTCGCTCAGACACTTTGGCAGGATGTCTGGGGCCTCACCAGCAGGAGCGCGTGCAAGCCG  
GGCAGGCGGTCCACCTAGACCCACAGCCCCCTCGGGAGCACCCCACTCTGTGTGTGATGTAGCTTCTCTCCCTC  
AGCCTGCAAGGGTCCGATTTGCCATCGAAAAAGACAACCTCTACTTTTTCTTTGTATTTTGATAAACACTGAA  
GCTGGAGCTGTTAAATTTATCTTGGGGAACCTCAGAACTGGTCTATTTGGTGTGCTGGAACCTCTTACTGCTTT  
CAATACACGATTAGTAATCAACTGTTTTGTATACTTGTTCAGTTTTTCATTTGACAAACAAGCACTGTAAATTA  
TAGCTATTAGAATAAAATCTCTTAATATT

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**FIGURE 617**

MGNIFANLFKGLFGKKEMRILMVGLDAAGKTTILYKLKLGEIVTTIPTIGFNVETVEYKNISFTVWDVGGQDKIR  
PLWRHYFQNTQGLIFVVDSDNRERVNEAREELMRMLAEDELRDVLLVFANKQDLPNAMNAAEITDKLGLHSLRH  
RNWYIQATCATSGDGLYEGLDWLSNQLRNQK

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## FIGURE 618A

GTGGGACCATCCAGTTGCAGGAAAACAAGCTTAACACGCCCACTGATTCTACATTATGCTCCTACCTCCCAGCAG  
CCTCTCCAGGCCCAGAACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCC  
CATACCTTACCTCAGGCAGTCTCCGCAGATGAGCCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCG  
TTACAATGGCCTCTTTAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCT  
CACCAGGCCCAGCTCATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCACCTCCAGGCCCA  
GCCTCTGCCTCCCGTCGGCCTCTACAATCCCAACATCTGCCTCACAGCAGATTCTTCAGGCCCAGCATCTGCCTC  
ACTGTGGACCCCCAAGCCAAGCTCCCAACCTTTTACAGCAGCTTCTACACACCCAACTCCTGCCACCCAGTGGCCT  
CTTTAGGCCAAGCTCATGCTTACAAAGGGCCTTTCCAGGCTCAACTTTTGTCTCATGGCAACCTTCTCTGGCCAG  
ATTCTGCCTGTCTCCACAGCAGCCTAGACAGGCCCAGGCTTGCCTCACACTGGCCTCTCTACATCCAGCTCATG  
CCTCACGGTGGCCTCTCCAGGCCCAACTCCTGTCCAGGACGTCTCTCCGGGCCCAAACTTACTCAAGTCAGA  
CTCTCTAGTCCCAACTGTGCCTCCTGGTGGCCTATGAAGGCCCAAAATCTCCTCAAGTGGACCTCTCCAGGCC  
AGCTCCTGCCTCCTGTACAGCCTCTACAGGCCCAACTCTGCCTCATGGGGCTTCTCCAGGCCCACTCTTCTCCT  
TTGGCTGGGTCTACAGGCACAAGTGTGCCTCACAACAGCCTTTTGGGCCAGTTCCTGTCCAGCTCATGGCGG  
CCAATGTAGGCCCAAACTTCTCAAGTCAAACTCTCCAGGCCCACTTCTGCCTCCCGGTGGCATGAACAGGCC  
CAGCTTTGACTTGAGAACAGCCTCTGCAGGCCCTGTCTTGCCTCCAGGGGCTTTTCCAGACCCAGCTCCTGC  
CTCATGGCAGCTGCCCCAGGCCAAATTTCTGCCTGCCTGCCAGCAGCCTCAACAGGCACAGCTCCTCCCTCACAG  
TGGCCCATTTAGGCCCAACTCATGACTGTCCGGCCATTTCCAGGCCTAGTGCCTGCCTCGTGGCTGACTCTTGAA  
GCCCAAACTTCTCAAAATCAGCCTTTTGGCCAACTTCTGTCTACTGTCTCGACTCTACAGGCCAGCCTCTGCCTC  
ACAGTGGACCTTCCAGACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGCCTTTCCGCAGCCTC  
TACAGGCCCAGCTCCTGCCTTGCAGTGGCCTCTTTAGGCCAAGCTCATGCCCCATGGCGACTTTTCCAGGCACAG  
CTTTTGCCTTTTGCAGCCTGTGCAGGCCCAGAATGTCTTAACTCGGCATCTCCAGGATGAGCTCATCCTCCAG  
TGCGTCTACAGGCCCGTCTCCTGCCTCACAACAACCTCCTTTGGCCCAACTCCTGCTGAGCTGTGGCAGCCTCT  
GTAGGCCACAGAATTCTTAAAGTAAAGCTTTCCAGGCCCACTTTGGCCTCCCGGCAGGCTCAGCAATCAAATA  
TTCCCTCACTGCGGCCACCGAAAGCCAAGTTTCTCCCTGCCTCACGGCATCCTCCGAAAACCTGAGCATTTGCCTC  
ACGGTGGCCTCCCCAGGCCATGAATCTGCCTGCCTCCAGGCAGCTGTGCCTCACAATGGTCTCTTTAGGCCCA  
GCTCATGTCTAAAGATGGACTCTCCAGGCACAGCTCTTGCCTCCTGGCAGCCTCTGCAGGCCCAAACTTCTCCAAA  
AGTTGGCCTCTCCTAACTCAGCTCCTGCCTCATGTCTGCCTACACAGGCCCAGACTCTTACCACACAGTAGACCC  
TCCAGGCCCACTTGCCTGATCATAGCCTCTTAAAGGCCAAGCTCCTGCCTTTCCGGCAGCCTCTACAGGCCAAG  
CTCCTGCCTCGCAATTGCCTCTGTAGGCCAAGATCATGCCGTGAAGTGGCCTTCCCTAGCCTAACTTTTGCCTTT  
TGACGCATACTCCAGTCCCAAACTTCTCCAGTCAGCCGGTCCAGGCCAAGCTCTTCTCCCAAGGCTTCTGC  
AGGCCAAAATCATCCTGAAGTCAACCTCTGCAGGCCAGCTCCTGCCTCCAAGTGTGTGTAGGCCAAGCTAATG  
CCTCACAGCACACTTTCCAGGCTGAGCATTTCTTTTGTGCATCCTCTCCAAGCCCTGAACCTTACTCCAGTTGGC  
CTCTCCAGACCAAGCTCTCCCTCCAGTGGCCTCTACAGGCCAAAATGTCTCAGGTGAGCCTCTCCAGGGCCA  
ACTCCTAGCTACCGGTGGCTTCTGCAGGCCAAAATCGACCTCAAGTCAGCCTCTTACACCCAGCTCTTGCCTCT  
GAGTGGCCTCTCCAGGAGCAAACTTCTCAAGTCGGCCTCTCCAGGCCCAGCCTCCTGCTTCCCGAGGGCATGT  
ACAGGCCCAGCCTCTGCCTCACAGCAGACTCTTACACCCAGCTCTTCCCTGTCTGCGGCCTCTCCAGTCCAAAG  
CTGCTCCTGCCTTTTGGCAGCTTGTACAGGCCCAGCTCCTCCCTCACGGTGGCCTCTTTCGGCCCAACTCATGCC  
CAACGGGCCCATCCCCTGCCTGTGCGCGGCCTCTACAGGCCCGGCCTCTACCTCACAGTGGGCTCTCCAGGCCCA  
CCTCTTCTCACCCTGGCCTCCTGGGCAATGCTCTCCCTCTCGGGAGCCTCTGTGGGCCCAGCTCCTGCCTCC  
CAGTGGCCTCTGCTGGCCAAGCCCGTGCCTCAGGGCAGCCTTTCCAGGCCTAGCGTTTGTGCTTTGCATCCTCT  
CCAGGCCCTGGACTTCTCCAGTCCGGCTCTCCAGGCCCAGCTCTTCTCTCGGCGGCCTCTGCAGGCCCAGACT  
GTCGTCAAGTCGGCTGTTCAGGGCCAGCTCCTGCCTCCCGGGCGCCTCTGCAGGCCCAAGTCGTCTCAAGTTG  
GCCTCCCCAGGCCCAGCAACGGCCTCTCGGCGGCCTTTCCGGGTGCAAAAGTTCTCGAGTCAGCCTCTCCAGGC  
CCAGCTCCTCCTGCCTCCCAAGTGGCCTCTTTCGGGCCAGCCAGCTCATGCCTCCCGGGCGCCTTCCAGGCCCT  
GCTTTTGACTTTTCGGTGGCCTCTGCAGGCCCTGACAAGGCCAGGCCTCCTGCCTCCCAAGGCCTGCACAGGCC  
AGCCTCTGCCTCACAGCAGACTCTCCACGCCCAGCTAGCTCTGCCTCACTGCGGCTTCCCGAGTCCAAAGCTCC  
TGCTCTCAGCCGCTTCGGCAGGCCCAGCTCCCGCCTGCCAGTGGCCTCTTCCAGGCCATGGGGCTCATTCCTCA



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**FIGURE 618B**

CAACGGCCTTTCCAGGCCAGTTTTCCCTTCCGGCGGCCTCTTGGCCTCTAATTGTTTATCTTTGGGTATAA  
ATCCCAAATATTGAATTTGGAATATTCCACCATT

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**FIGURE 619**

TCTAATACCTATTGATCTGTCACTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTA  
ACACGCCCCTGATTCTACATTATGGTGAGTTCTATAATTATTTTATTATATATTACAGTGTAATAATGGAAATA  
AAGTGCCCTAATAAATGTAAATGTGCTTAAATCTTTTGGCCCAGCTCCTACCTCCCAGCAGCCTCTCCAGGCCCAG  
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATACCCTACCTCAC  
GGCAGTCTCCGCAGATGAGCCTACTGCCTCACAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT  
TAGACCCAGCTCCTGCCTCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCTCACCAGGCCCAGCTC  
ATGCTTCTTTGAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCACCTCCAGGCCCAGCCTCTGCCTCCCGT  
CGCCTCTACAATCCCAACATCTGCCTCACAGCAGATTCTTCAGGCCCAGCATCTGCCTCACTGTGGACCCCCCA  
GACCCAGATGGTGTCTCACTGTGGCATCCTCAGGCGAAGCTCCTGCCTTTCCGCAGCCTCTCCAGGCCCAGCTCC  
TCCTGCCTCCCAGTGGCCTCTTTTCGGCCCAGCCCAGCTCATGGCTCTCGGCGGCCTTCCCAGGCCCCGCTTTTGA  
CTTTTGGCGGCCTCTTCAGGCC

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**FIGURE 620**

TTGAAGAACTTTGCCAAATACTTTCTTCACCAATCTCATGAGGAGAGGGAACATGCTGAGAAACTGATGAAGCTG  
CAGAACCAACGAGGTGGCCGAATCTTCCTTCAGGATATCAAGAAACCAGACTGTGATGACTGGGAGAGCGGGCTG  
AATGCGATGGAGTGTGCATTACATTTGGAAAAAAGTGTGAATCAGTCACTACTGGAAGTGCACAAACTGGCCACT  
GACAAAAATGACCCCCATTTGTGTGACTTCATTGAGACACATTACCTGAATAAGCAGGTGAAAGCCATCAAAGAA  
TTGGGTGAGCACGTGACCAACTTGTGCAAGATGGGAGCGCCGAATCTGGCTCGGCGGAATACCTCTTAGACAAG  
CACACCCTGGGGGACAGTGATAATGAAAGCTAAGCCTCAGGCTAATTTCCACATAGCCGTGGGAGTGACTTCCTT  
GGTCACCAAG

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**FIGURE 621**

MKLQNQRGGRIFLQDIKKPCDDWESGLNAMECALHLEKSVNQSLLELHKLATDKNDPHLCDFIETHYLNKQVKA  
IKELGEHVTNLCKMGAPESGSAEYLLDKHTLGDSDNES

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**FIGURE 622**

ATGGCCGGCACAAAGATGGGGCGGGAGGACAGCGTGCTGGATACGGCGTGGGGCGGGTCCGCGCCCCGGGAGACC  
CATGCTGGGGCGGCCCTGTCACCTCGTCTCGCTGCCAAGCACAGGGCTGAGGTGCGGAGGGACCACTGAGAGGACT  
TCGCTGCGTGTCAGCTCAGCTCTGGACGGCGTGGAGGAGCCCTGGAACTTTATTTACAAAACTGACAGCAGCT  
GCCCTTAGTTTGGCAGCTGGAAAATGGGAAAGAGAAAGTAAGAGGAAGGGTGGCAAAGGAGGGAGCCCATGTGGA  
CAGCAGGAACGGGTACACGATAGCACAAGAATCAAAACAAAGGCTCTCTGGTCGGAGTTTAGAAAGGCTGAAGGG  
GATACTAAAGGAGGAGATAAAGCCCAGGTGAAGGACGAACACAGAATAGATCCGCGAGGTTGTCTGCTAAACCT  
GCTCCTCCAAAACCAGAGCCCCAAGCCTAAAAAGGCCCTGCAGAGACAGTACCCAAAGGGAAAAAGGGAAAAGCT  
GTTGCTGGCAAGGAGGGGAATAACCTGCGAGAAAATGGAGATGCCAAAACAGACCAGGCACAGAAAGCTGAAGGT  
GCTGGAGATGCCAAGGCAAATCTGCTGCCACGGTGTGGCAGCAAAGAAATGAAAGGAAGTGTCTGGCAGCGCAGG  
GGAGAAATTGTGTTTCCTCCTTCTCCAAAGGTTACCTTTTCTATTTCACCTTCATCATTATAAGAAGGTGAAA  
GGATGCCAGGAGCAAGGCGGATCTACGGGACTTTTGAAAAGAAATGTACTGACCTTTGGCTGTAAAACTGTGTC  
ATGAGAACAGAAAGCCCTGAGAGAAGAAGACAGCCATTATGGGATCTATGGCGCACTCTGTGCTAGGGCAGAAT  
GCCAGGGAAGAGCTGCCTGTCTTCAGCGCCCTTGCTGGGAACCACACGCCAGAACCCGACCCTGCCATGCTTTGT  
GCTTCAGGCAGCAGGACCCACCCCTAACAGAGTCTCAAGTCAGACACTTAA

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**FIGURE 623**

MAGTKMGREDSVLDTAWGGSAAARETHAGAALSLVSLPSTGLRCGGTTERTSLRVSSALDGVVEEPWKLYLQKLTA  
ALSLAAGKWERESKRKGKGGSPCGQQERVHDSRIKTKALWSEFRKAEGDTKGGDKAQVKDEPQNR SARLSAKP  
APPKPEPKPKKAPAETVPKGGKGA VAGKEGNNPAENGDAKTDQAQKAEGAGDAKANLLPRCGSKEMKGSVWQRR  
GEIVFPSPKVLHLYFTFIHKKVKGCQEQQGGSTGLLKRNVLTFGCKNCVMRTESFERRRQPFMGSMHSLGQN  
AREELPVFSALAGNHTPEPDPAMLCASGSRTPPLTESQVRH

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**FIGURE 624**

AAGAAGCTGCCGTTGTTCTGGGTACTACAGCAGAAGGGTATGCGGAAGCGAGCACCCAGTCTGAGATGGCTCCT  
GCCGGTGTGAGCCTGAGGGCCACCATCCTCTGCCTCCTGGCCTGGGCTGGCCTGGCTGCAGGTGACCGGGTGTAC  
ATACACCCCTTCCACCTCGTCATCCACAATGAGAGTACCTGTGAGCAGCTGGCAAAGGCCAATGCCGGAAGCCC  
AAAGACCCACCTTCATACCTGCTCCAATTCAGGCCAAGACATCCCCTGTGGATGAAAAGGCCCTACAGGACCAG  
CTGGTGTAGTCGCTGCAAACTTGACACCGAAGACAAGTTGAGGGCCGCAATGGTCGGGATGCTGGCCAACCTC  
TTGGGCTTCCGTATATATGGCATGCACAGTGAGCTATGGGGCGTGGTCCATGGGGCCACCGTCCTCTCCCAACG  
GCTGTCTTTGGCACCTGGCCTCTCTCTATCTGGGAGCCTTGGACCACACAGCTGACAGGCTACAGGCAATCCTG  
GGTGTTCCTTGAAGGACAAGAACTGCACCTCCCGGCTGGATGCGCACAAGGTCTGTCTGCCCTGCAGGCTGTA  
CAGGGCTGCTAGTGGCCCAGGGCAGGGCTGATAGCCAGGCCAGCTGCTGTCTCCACGGTGGTGGGCGTGTTC  
ACAGCCCCAGGCCTGCACCTGAAGCAGCCGTTTGTGACAGGCCCTGGCTCTCTATACCCCTGTGGTCTCCACGC  
TCTCTGGACTTCACAGAAGTGGATGTTGCTGCTGAGAAGATTGACAGGTTTCATGCAGGCTGTGACAGGATGGAAG  
ACTGGCTGCTCCCTGATGGGAGCCAGTGTGGACAGCACCTGGCTTTCAACACCTACGTCCACTTCCAAGGGAAG  
ATGAAGGGCTTCTCCCTGCTGGCCGAGCCCCAGGAGTTCTGGGTGGACAACAGCACCTCAGTGTCTGTTCCCATG  
CTCTCTGGCATGGGCACCTTCCAGCACTGGAGTGACATCCAGGACAACCTTCTCGGTGACTCAAGTGCCTTCACT  
GAGAGCGCCTGCCTGCTGCTGATCCAGCCTCACTATGCCTCTGACCTGGACAAGGTGGAGGGTCTCACTTTCCAG  
CAAACTCCCTCAACTGGATGAAGAACTGTCTCCCGGACCATCCACCTGACCATGCCCCAACTGGTGTGCAA  
GGATCTTATGACCTGCAGGACCTGCTCGCCAGGCTGAGCTGCCCGCCATTCTGCACACCGAGCTGAACCTGCAA  
AAATTGAGCAATGACCGCATCAGGGTGGGGGAGGTGCTGAACAGCATTTTTTTTGAGCTTGAAGCGGATGAGAGA  
GAGCCACAGAGTCTACCCAACAGCTTAACAAGCCTGAGGTCTTGGAGGTGACCCTGAACCGCCCATTCCTGTTT  
GCTGTGTATGATCAAAGCGCCACTGCCCTGCACTTCTTGGGCCGCGTGGCCAACCCGCTGAGCACAGCATGAGGC  
CAGGGCCCCAGAACACAGTGCCTGGCAAGGCCTCTGCCCTTGGCCTTTGAGGCAAAGGCCAGCAGCAGATAACAA  
CCCCGGACAAATCAGCGATGTGTACCCCCAGTCTCCACCTTTTCTTCTAATGAGTCGACTTTGAGCTGGAAAG  
CAGCCGTTTCTCCTTGGICTAAGTGTGCTGTCATGGAGTGAGCAGTAGAAGCCTGCAGCGGCACAAATGCACCTCC  
CAGTTTGCTGGGTTTATTTTAGAGAATGGGGGTGGGGAGGCAAGAACCAGTGTTTAGCGCGGGACTACTGTTCCA  
AAAAGAATTCCAACCGACCAGCTTGTTTGTGAAACAAAAAAGTGTCCCTTTTCAAGTTGAGAACAAAAATTGGG  
TTTTAAATTAAGTATACATTTTGCATTGCCTTCGGTTTGTATTAGTGTCTTGAATGTAAGAACATGACCTC  
CGTGTAGTGTCTGTAATACCTTAGTTTTTCCACAGATGCTTGTGATTTTTGAACAATACGTGAAAGATGCAAGC  
ACCTGAATTCTGTTTGAATGCGGAACAATAGCTGTTATTTCTCCCTGTGTTAGTAATAAACGTCTTGCCAC

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**FIGURE 625**

MRKRAPQSEMAPAGVSLRATILCLLAWAGLAAGDRVYIHPFHLVIHNESTCEQLAKANAGKPKDPTFIPAPIQAK  
TSPVDEKALQDQLVLVAAKLDTEKLRAMVGMLANFLGFRIYGMHSELWGVVHGATVLSPTAVFGTLASLYLGA  
LDHTADRLQAILGVPWKDKNCTSRDAHKVLSALQAVQGLLVAQGRADSQAQLLLSTVVGVTAPGLHLKQPFVQ  
GLALYTPVVLPRSLDFTELDVAAEKIDRFMQAVTGWKTGCSLMGASVDSTLAFNTYVHFQGKMKGFSLLAEPQEF  
WVDNSTSVSPMLSGMGTFQHWSDIQDNFSVTQVPFTESACLLLIQPHYASDLKVEGLTFQQNSLNWMKKLSPR  
TIHLTMPQLVLQGSYDLQDLQAELPAILHTELNQKLSNDRIRVGEVLNSIFFELEADEREPTTESTQQLNKPE  
VLEVTLNRPFLLFAVYDQSATALHFLGRVANPLSTA



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**FIGURE 626**

GAATTCGGCACGAGCCGGGATCCTGTGTAGCGGCTGCAGAGGGTGCCGCCGCCCTAGGCGAAGTAGGGCCGTCCT  
GAGCGAAAGAACCGCCCCCAGCAGGAGCACCACCACGGCTTAGCAAAGAATCCCAGACCCCGCCGGGAAGGCAG  
CCGCACCATGGAGTCTTCCAGTTCATCTAACTCTTATTCTCCGTTGGCCCAACCAGTCCCAGCGCTGTCGTGCT  
CCTCTACTCGAAGGAGCTCAAAAAGTGGGATGAGTTTGAAGATATTTAGAAAGAGAGGAGGCATGTCAGTGACTT  
GAAATTTGCAATGAAATGCTACACACCTCTTGTCTATAAGGGAATTACTCCATGTAAACCAATTGATATTAAATG  
TAGTGTTCTCAATTCTGAGGAGATTCAATTATGTCATTAAACAGCTTTCCAAGGAATCCCTTCAATCTGTGGATGT  
CCTCCGAGAGGAAGTGAGTGAGATCTTAGATGAAATGAGTCACAACTGCGTCTTGGAGCCATTCGGTTTTGTGC  
CTTCACCCTGAGCAAAGTATTTAAACAAATTTTCTCGAAGGTGTGTGTAATGAAGAAGGTATTCAGAACTACA  
AAGAGCCATCCAGGAGCATCCTGTTGTTCTGCTGCCTAGTCATCGAAGTTACATTGACTTCCTCATGTGTGCTTT  
TCTTCTATACAATTATGATTTGCTGTGCCAGTTATAGCAGCAGGAATGGACTTCCTGGGAATGAAATGGTTGG  
TGAGCTGCTACGAATGTCGGGTGCCTTTTTCATGCGGCGTACCTTTGGTGGCAATAAACTCTACTGGGCTGTATT  
CTCTGAATATGTAAAACTATGTTACGGAATGGTTATGCTCCTGTTGAATTTTCTCGAAGGGACAAGAAGCCG  
CTCTGCCAAGACATTGACTCCTAAATTTGGTCTTCTGAATATTGTGATGGAGCCATTTTAAAAAGAGAAGTTTT  
TGATACCTACCTTGTCCCAATTAGTATCAGTTATGATAAGATCTTGAAGAACTCTTATGTGTATGAGCTTCT  
AGGGGTTCTTAAACAAAAGAGTCTACAACTGGGTGTGTAAGCCAGAAAGATTCTCTGAAAATTTTGAAG  
CATCCATGTGTACTTTGGAGATCCTGTGTCACTTCGATCTTTGGCAGCTGGGAGGATGAGTCGGAGCTCATATA  
CTTGTTTCCAAGATACATTCTCAGAAACAGTCTGAGGACATGCATGCCTTTGTCACTGAAGTTGCCTACAAAAT  
GGAGCTTCTGCAAATTGAAAACATGGTTTTGAGCCCTGGACCCTAATAGTTGCTGTTCTGCTTCAGAACCGGCC  
ATCCATGGACTTTGATGCTCTGGTGAAAAGACTTTATGGCTAAAAGGCTTAACCCAGGCATTTGGAGGGTTCT  
CATTTGGCCTGATAATAAACCTGCTGAAGAAGTTGTCCCGGCCAGCATTCTTCTGCATTCCAACATTGCCAGCCT  
TGTCAAAGACCAGGTGATTCTGAAAGTGGACTCCGGAGACTCGGAAGTGGTCGATGGGCTTATGCTCCAGCACAT  
CACTCTCCTCATGTGCTCAGCTTATAGGAACCAGCTGCTCAACATTTTGTGCGCCCATCCTTAGTAGCAGTAGC  
ATTGCAGATGACACCAGGGTTCAGGAAAGAGGATGTCTACAGTTGCTTTCGCTTCTACGTGATGTTTTGAGAG  
TGAGTTCACTTTCCTTCCAGGAAACACACTAAAGGACTTTGAAGAAGGCTGTACCTGCTTTGTAAAAGTGAAGC  
CATACAAGTGACTACGAAAGACATCCTAGTTACAGAGAAAGGAAATACTGTGTTAGAATTTTAGTAGGACTCTT  
TAAACCTTTTGTGAAAGCTATCAGATAATTTGCAAGTACCTTTTGAGTGAAGAAGAGGACCACTTCACTGAGGA  
ACAGTACTTGGCTGCAGTCAGAAAATTCACAAGTCAGCTTCTCGATCAAGGTACCTCTCAATGTTATGATGTATT  
ATCTTCTGATGTGCAGAAAAACGCCTTAGCAGCCTGTGTGAGGCTCGGAGTAGTGAGAAGAAGAAGATAAATAA  
TAACTGTATATTTAATGTGAATGAACCTGCCACAACCAAAATTAGAAGAAATGCTTGGTTGTAAGACACCAATAGG  
AAAACCAGCCACTGCAAACTTTTAATAATCAACAAATAGTTATGGAAAATTCGGTCACGTAATTACTCTCATCGA  
AGGACTCATTACAACAAACAGGGAAGTAAAGGAAGAGACACATCCTCTCATACTCCCTGAGACTCTGAGAACAGT  
GGACGCAGAGGGAAGAGATGATCATTGGAAGCAATCAGTTTACTCTTCCCCACCACAGTGGTTAAAGGCGTTTG  
TATCTGACACTATGTGTGTGTTTTAAATAAACTTTTGGAAACATGAAAAAAAAAAAAAAAAAACTCGAG

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**FIGURE 627**

MESSSSSNSYFSVGPTSPSAVVLLYSKELKKWDEFEDILEERRHVSDLKFAMKCYTPLVYKGITPCKPIDIKCSV  
LNSEEIHYVIKQLSKESLQSDVLRREEVSEILDMSHLRLGAIRFCAFTLSKVFKQIFSKVCVNEEGIQKLQRA  
IQEHPVLLPSHRSYIDFLMLSFLLYNYDLPVPVIAAGMDFLGKMGVCELLRMSGAFFMRRTFGGNKLYWAVFSE  
YVKTMLRNGYAPVEFFLEGTRSRSAKTLTPKFGLLNIVMEPFFKREVFDTYLPISISYDKILEETLYVYELLGV  
PKPKESTTGLLKARKILSENFGSIHVYFGDPVSLRSLAAGRMSRSSYNLVPRYIPQKQSEDMHAFVTEVAYKMEL  
LQIENMVLSPWTLIVAVLLQNRPSMDFDALVEKTLWLKGLTQAFGGFLIWPDNKPAEEVVPASILLHSNIASLVK  
DQVILKVDSGDSEVVDGLMLQHITLLMCSAYRNQLLNIFVRPSLVAVALQMPGFRKEDVYSCFRFLRDVFADEF  
IFLPGNTLKDFEEGCYLLCKSEAIQVTTKDILVTEKGNTVLEFLVGLFKPFVESYQIICKYLLSEEDHFSEEQY  
LAAVRKFTSQLLDQGTSQCYDVLSSDVQKNALAACVRLGVVEKKKINNNCIFNVNEPATTKLEEMLGCKTPIGKP  
ATAKL

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**FIGURE 628**

CTCTTCCTAAGCCGGCGCTCGGCAAGTTCTCCAGGAGAAGGCCATGTCAGTACGAGCGCCAAGATCGTGAAGC  
CTAATGGCGAGAAGCCGGACGAGTTCGAGTCCCGCATCTCCAGGCTCTTCTGGAGCTGGAGATGAACTTGGACC  
TCAAGGCTCAGCTCAGGGAGCTGAATATTATGGCAGCCAAGGAAATTGAGGTTGGTGGTGGTCAGAAAGCTATCA  
TAATCTTTGTTCCCGTTCTCAACTGAAATCTTTCCAGAAAATCCAAGTCCGGCTAGTATGTGAATTGGAGAAAA  
AGTTCAGTGGGAAGCATGTTGTCTTTATCGCTTAAAGGAGAATCCTGCCTAAGCCAACTTGGAAAAGCTGTACAA  
AATATAAGCAAAAGCATCCAGGAGCCATACTCTGACAGCTGTGCACGATGCCATCCTTGAGGACTTGGTCTTCA  
CAAGCAAAATTGTGGGCAAGAGAATCCGCGTGAAACTAGATGGCAGCCGGCTCATGAAGGTTTCAATTGGACAAAG  
CACAGCAGAACAATGTGGAACACAAGGTTGAACTTTTTCTGGTGTCTATAAGAAGCTCATGGGCAAGGATGTTA  
ATTTGAATTCCAGAGTTTCAATTGTAAACAAAATGACTAAATAAAAAATATATATTCACAGT

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**FIGURE 629**

MFSTSAKIVKPNGEKPDEFESRISQALLELEMNLDLKAQLRELNIMAAKEIEVGGGQKAIIFVPVPQLKSFQKI  
QVRLVCELEKKFSGKHVVFIAKRRILPKPTWKSTKYKQKHPSHTLTAVHDAILEDLVFTSKIVGKRIRVKLDG  
SRLMKVHLDKAQQNNVEHKVETFSGVYKKLMGKDVNFEFPEFQL

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**FIGURE 630**

GTCGCGACCCTGGTCCGGACCTGACCTGAATTGCGACCCCAACCTGGACTGCTCCCCTGACCGCAACCCCTACCC  
CCGCCCACCAGTATGGCCCCGGCACGTGTTCCCTAACGGGGCCCCCAGGAGTTGGAAAAACAACATTGATCCATAAA  
GCCAGTGAGGTTTTAAATCCTCTGGTGTGCCTGTTGATGGATTTATACCGAAGAAGTCAGACAGGGAGGGAGA  
AGAATAGGATTCGATGTCGTCACGTTGTCCGGCACCCGGGGGCCCTTTATCGAGAGTTGGGTTAGAGCCTCCACCT  
GGAAAACGTGAATGCCGAGTTGGGCAGTATGTGGTCGACCTGACTTCTTTTGAGCAGTTGGCACTACCCGCTCTTG  
AGGAATGCCGACTGCAGCAGTGGCCCAGGGCAAAGAGTGTGCGTCATCGATGAGATTGGGAAGATGGAGCTCTTC  
AGTCAGCTTTTCATTCAAGCTGTTTCGTCAGACGCTGTCTACCCCAGGGACTATAATCCTTGGCACAATCCCAGTT  
CCTAAAGGAAAGCCACTGGCTCTTGTAGAAGAAATCAGAAACAGAAAGGATGTGAAGGTGTTAATGTCACCAAG  
GAAAACAGAAACCACCTTCTGCCAGATATCGTGACGTGCGTGCAGAGCAGCAGGAAGTGAAGACACGTGCATTCC  
TGCCCTCCGTGAAGGAGTGCCCAGTTCAAGAGGAGCCTGATGGAGCCCTGCCTGTCGAGGCTGTATGCCCTATGGG  
GTTATGGAACCTTGTGGGCTTTTCTAGAGAAACTCAACAGCTGTTTCCCATAAAATGTTTAAAAGATCAAATTA  
GCCTTAATGCTGGATTGTCTGTACAAGATTAACTATCCATTGTGGCTTATCTATGCTTAAAGATTTCTTGTTAT  
TAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 631**

MARHVFLTGPPGVGKTTLIHKASEVLKSSGVPVDGFYTEEVQRQGGRRIGFDVVTLSGTRGPLSRVGLEPPPGKRE  
CRVGQYVVDLTSFEQLALPVLARNADCSSGPGQRVCVIDEIGKMELFSQLFIQAVRQTLSTPGTIILGTIPVPKGK  
PLALVEEIRNRKDVKFNVTKENRNHLLPDIVTCVQSSRK

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**FIGURE 632**

GCAAGATGGCAGAAGTAGAGCAGAAGAAGAAGCGGACCTTCCGCAAGTTCACCTACCGCGGCGTGGACCTGGACC  
AGCTGCTGGACATGTCTACGAACAGCTGATGCAGCTGTACAGTGCGCGCCAGCGGCGGCGGCTGAACCGGGGCC  
TGCGGCGGAAGCGGCACTACCTGCTGAAGCGCCTGCGCAAGGCCAAGAAGGAGGCGCGCCCATGGAGAAGCCGG  
AAGTGGTGAAGACGCACCTGAGGGACGTGATCATCCTGCCCCGAGGTGGTGGGCAGCATGGTGGGCGTCCACAACG  
GCAAGACCTTCACCTACAAGCCCGTAAAGCAATGCCGGTCCGGCATCGGCGCCACCCACTCCTTCTGCTTCATCC  
CTCTCAAGTAGTGGCTCAGCTAATAAAGGCGCACATG

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**FIGURE 633**

MAEVEQKKKRTFRKFTYRGVDLDQLLDMSYEQMLQLYSARQRRRLNRGLRRKRHYLLKRLRKAKKEAPPMEKPEV  
VKTHLRDVIIILPEVVGSMVGVHNGKTFTYKPVKQCRSGIGATHSFCFIPLK



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**FIGURE 634**

ACCATGTCTATTCTCAAGATCCATGCCAGGGAGCTCTTTGACTCTCGTGGGAATCCCACTGTTGAGGTTGATCTC  
TTCACCTCAGAAGGTCTCTTCAGAGCTGCTGTGCCCAGTGGTGCTTCAACTGGTATCTATGAGGTCCTAGAGCTC  
CAGGACAATGATAAGACTCGCTATATGGGGAAGGGTGTCTCAAAGCCTGTTGAGCCCATCAATAAACTATTGCA  
CCTGTCCTGGTTAGCAAGAACTGAACGTACAGAACTTCTACAGAAGCCAAGCTCCCTGGAGCCCTGTTGGCAG  
CTCTAGCCCTTGCAGTCAATGTAATTGGCCCAAATCACCGGAGCCACGTGACCCTCCAGTGTCATCTCCGGGGTGGC  
CACAGGCAAGATCCCCAGTGATTTTGTGCTCAAAATAAAAAGCCTCATTGACCCATGAG

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**FIGURE 635**

MSILKIHARELFDSRGNPTVEVDLFTSEGLFRAAVPSGASTGIYEVLELQDNDKTRYMGKGVSKPVEPINKTIAP  
VLVSKKLNVTPELLQKPSSLEPCWQL

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## FIGURE 636

CCCAGAAATTCTACCCAAGCTCCCTCAGCACCATGTACCGAGCACTTCGGCTCCTCGCGCGCTCGCGTCCCCTCG  
TGCGGGCTCCAGCCGAGCCTTAGCTTCGGCTCCCGGCTTGGGTGGCGCGGCCGTGCCCTCGTTTTGGCTCCGA  
ACGCGGCTCGAATGGCAAGCCAAAATTCCTCCGGATAGAATATGATACCTTTGGTGAATAAAGGTGCCAAATG  
ATAAGTATTATGGCGCCAGACCGTGAGATCTACGATGAACCTTTAAGATTGGAGGTGTGACAGAACGCATGCCAA  
CCCCAGTTATTAAAGCTTTTGGCATCTTGAAGCGAGCGGCCGTGAAGTAAACCAGGATTATGGTCTTGATCCAA  
AGATTGCTAATGCAATAATGAAGGCAGCAGATGAGGTAGCTGAAGGTAAATTAATGATCATTTCCTCTCGTGG  
TATGGCAGACTGGATCAGGAATCAGACAAATATGAATGTAAATGAAGTCATTAGCAATAGAGCAATTGAAATGT  
TAGGAGGTGAACCTTGGCAGCAAGATACCTGTGCATCCCAACGATCATGTTAATAAAAGCCAGAGCTCAAATGATA  
CTTTTCCCACAGCAATGCACATTGCTGCTGCAATAGAAGTTCATGAAGTACTGTTACCAGGACTACAGAAGTTAC  
ATGATGCTCTTGATGCAAAATCCAAAGAGTTTGACAGATCATCAAGATTGGACGTACTCATACTCAGGATGCTG  
TTCCACTTACTCTTGGGCAGGAATTTAGTGGTTATGTTCAACAAGTAAAAATATGCAATGACAAGAATAAAGCTG  
CCATGCCAAGAATCTATGAGCTCGCAGCTGGAGGCACTGCTGTTGGTACAGGTTTAAATACTAGAATTGGCTTG  
CAGAAAAGGTTGCTGCAAAAGTGGCTGCACCTTACAGGCTTGCTTTTGTACTGCTCCGAATAAATTTGAAGCTC  
TGGCTGCTCATGACGCTCTGGTTGAGCTCAGTGGAGCCATGAACACTACTGCCTGCAGTCTGATGAAGATAGCAA  
ATGATATTGATTTTTGGGTCTCGGTCCGTGAGGTCTGGGAGAATTGATCTTGCCTGAAAATGAACCAGGAA  
GCAGTATCATGCCAGGCAAGGTGAACCTACTCAGTGTGAAGCAATGACCATGGTTGCAGCCCAAGTCATGGGGA  
ACCATGTTGCTGTCACTGTGCGAGGCAGCAATGGACATTTTGAGTTGAATGTTTTCAAGCCAATGATGATTAAAA  
ATGTGTTACACTCAGCCAGGCTGCTGGGGGATGCTTCAGTTTCCTTTACAGAAAAGTGCCTGGTGGGAATCCAGG  
CCAATACAGAAAGGATCAACAAGCTGATGAATGAGTCTCTAATGTTGGTGACAGCTCTCAATCCTCATATAGGGT  
ATGACAAGGCAGCAAAGATTGCTAAGACAGCACAAAAATGGATCAACCTTAAAGGAAACTGCTATCGAACTTG  
GCTATCTCACAGCAGAGCAGTTTGACGAATGGGTAAACCTAAGGACATGCTGGGTCCAAAGTGATTTACATAAA  
TTTATAATGAAAATAAACATGTATAAAATTTAAAAAACAGACTCCCATTTCTTAAAAACGGATAAGTTTGAAG  
GAAACTGCTATTGAACCTAAGCATCTCTAGCAGAGCAATTTGATCAGTATATAAAACCCTAGGATGTGCTAGGTC  
TAAGATGGATTAAACAAGTATAAAATAAAATACATTTATAAAATAAAAGGAAAACAGACTTAAAA

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**FIGURE 637**

MYRALRLLARSRLVRAPAAALASAPGLGGAAVPSFWPPNAARMASQNSFRIEYDTFGELKVPNDKYYGAQTVRS  
TMNFKIGGVTERMPTPVIKAFGILKRAAAEVNQDYGLDPKIANAIMKAADEVAEGKLNDFPLVVWQTGSGTQTN  
MNVNEVISNRAIEMLGELGSKIPVHPNDHVNKSQSSNDTFPTAMHIAAAIEVHEVLLPGLQKLHDALDAKSKEF  
AQIIKIGRTHQTQDAVPLTLGQEFSGYVQQVKYAMTRIKAAMPRIYELAAGGTAVGTGLNTRIGFAEKVAAKVAAL  
TGLPFVTAPNKFEALAAHDALVELSGAMNTTACSLMKIANDIRFLGSGPRSGLGELILPENEPGSSIMPGKVNPT  
QCEAMTMVAAQVMGNHVAVTVGGSNGHFELNVFKPMMIKNVLSARLLGDASVSFTENCVVGIQANTERINKLMN  
ESLMLVTALNPHIGYDKAAKIAKTAHKNGSTLKETAIELGYLTAEQFDEWVKPKDMLGPK

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**FIGURE 638**

GGGXTCGGCCCCCTCCCCCTCTTCTGCGCTCTCTTCGGGATACACGTGGGCTTCGGGCCTGGGCCGCGCAGTITTTT  
CTTTGGCTTTCTCGAATCATCGAGGAGACTGGCAAAATTAGTAATGTCTTTAGACTGCGTCACTAGCGCCAATCG  
AATTCGTAGTTGATTGTTCTTTGAATTCACATTGAGTCCTCGGTTAAAACCTCAGTTAAAAAGCAGGATAAAGT  
CGAGCTGCTTTGGTTCTCGGAACGGAAAAGCGTTTTTTTTGTTGTTTAGAGGCTTGGCCTTTATGGGGCTCGTG  
TGTTTTAGGGGACGGCAAAACAGAACAGAAAGCGGAGATAAAAAGAGGGGTGTTAAAAGACCACGAGAAGATCA  
TGGCCGTGGATATTTTGAAGTACATTGAAGAGAACAAAGTATAGCAGAGCCAAATCTCCTCAGCCACCTGTTGAAGA  
AGAAGATGAACACITTCGATGACACAGTGGTTTTGCTTGATACTTATAATTGTGATCTACATTTTAAAAATATCAAG  
AGATCGTCTCAGTGCTTCTTCCCTTACAATGGAGAGTTTTGCTTTTCTTTGGGCTGGAGGAAGAGCATCCTATGG  
TGTGTCAAAAGGCAAAAGTGTGTTTTGAGATGAAGGTTACAGAGAAGATCCCAGTAAGGCATTTATATACAAAAGA  
TATTGACATACATGAAGTTCGTATTGGCTGGTCACTAACTACAAGTGAATGTTACTTGGTGAAGAAGAATTTTC  
TTATGGGTATTCTCTAAAAGGAATAAAAACATGCAACTGTGAGACTGAAGATTATGGAGAAAAGTTTGATGAAAA  
TGATGTGATTACATGTTTTGCTAACTTTGAAAGTGATGAAGTAGAACTCTCGTATGCTAAGAATGGACAAGATCT  
TGGCGTTGCGCTTCAAAATCAGTAAGGAAGTCTTGCTGGACGGCCACTGTTCCCGCATGTTCTCTGCCACAACCTG  
TGCAGTTGAATTTAATTTTGGTCAGAAGGAAAAGCCATATTTTCCAATACCTGAAGAGTATACTTTTCATCCAGAA  
CGTCCCCCTTAGAGGATCGAGTTAGAGGACCAAAGGGGCTGAAGAGAAGAAAGATTGTGAAGTTGTGATGATGAT  
TGGCTTGCCAGGAGCTGGAAAACTACCTGGGTACTAAACATGCAAGCAGAAAATCCAGGGAAATATAACATTCT  
TGGCACAATACTATTATGGATAAGATGATGGTGGCAGGTTTTAAGAAGCAAATGGCAGATACTGGAAAACTGAA  
CACACTGTTGCAGAGAGCCCCCAGTGTCTTGGGAAATTTATTGAGATTGCTGCCGAAAGAAGCGAAATTTAT  
TCTGGATCAGACAAATGTGTCTGCTGCTGCCAGAGGAGAAAAATGTGCTGTTTGCAGGCTTCCAGCGAAAAGC  
TGTTGTAGTTTGGCCAAAAGATGAAGACTATAAGCAAAGAACACAGAAGAAAGCAGAAGTAGAGGGGAAAGACCT  
ACCAGAACATGCGGTCTCAAAATGAAAGGAACTTTACCCTCCCAGAGGTAGCTGAGTGCTTTGATGAAATAAC  
CTATGTTGAACTTCAGAAGGAAGAAGCCCCAAAACCTCTGGAGCAATATAAGGAAGAAAGCAAAAAGGCTCTTCC  
ACCAGAAAAGAAACAGAACACTGGCTCAAAGAAAAGCAATAAAAATAAGAGTGGCAAGAACCAGTTTAACAGAGG  
TGGTGGCCATAGAGGACGTGGAGGATTCAATATGCGTGGTGGAAATTTAGAGGAGGAGCCCCCTGGGAATCGTGG  
CGGATATAATAGGAGGGGCAACATGCCACAGAGAGGTGGTGGCGGTGGAGGAAGTGGTGGAAATCGGCTATCCATA  
CCCTCGTGCCCTGTTTTTCTGGCCGTGGTAGTTACTCAAACAGAGGGAAGTACAACAGAGGTGGAATGCCCAA  
CAGAGGGAAGTACAACAGAACTTCAGAGGACGAGGAAACAATCGTGGCTACAAAATCAATCTCAGGGCTACAA  
CCAGTGGCAGCAGGGTCAATCTGGGGTCAGAAGCCATGGAGTCAGCATTATCACCAAGGATATTATTGAATACC  
CAAATAAAACGAAGTATACATATTTCTCCAAAACCTTCACAAGAAGTCGACTGTTTTCTTTAGTAGGCTAACTT  
TTTAAACATTCCACAAGAGGAAGTGCCTGCGGTTCTTTTTTAGAAGCTTTGTGGGTGATTTTTTTCTTTTC  
TTTTTTGTACATTTTAAATGTCAGTTTAAAAGTGAATCGTAAGAGAACCTCAGCATTGTGCACGATAAGAGAATG  
TGTCAGTATTTAGGGTTCTACATTTTATCTGTAAATGTGACTTTTTTTTTTTTATCACAAACAGAAGTAAAA  
TGTTGCTTTGTACCTGGTGTCTTTTATTAAGAATTTACTCCCCCATTTCTCACAGAGAATAACAGTCGGGAGTC  
ATTGTCACAATATAATAGAAATGTTAGCAACCAGATTGTAAGGACTAAGTGGTCCTCATGAATTGCATTAG  
ACTCTGTACTGCTCATATTACACTCCATCCTCTCTGTAGTTTGCTGGGTAGTGGAGGGGTAAGCTAAATCATAG  
TTTCTGACAATAACTGGGAAGGTTTTTCTTAAATAACAATGGAATTGGTATAATTGGGATTGAAAACATAAAC  
TTGGAACATAAGATAGAGAAGATGGAGTGTATGTAGAAGGCTGTTAAAAATGTAAACTTGGTTGCATTATTTGT  
GGAGGCTCAAACCTTGTAAGGTTAATACCATAATTTTCCATTGTTCTGCATTTTGATTCTGAAAAGAAAGCTG  
GCTTTGCCCATTCTTATTAAAAAACTTGTTGTAAATCCAGTTGTCTAATGGGATCTATATGAAGTTAGCCATG  
TCTGTATGCCCTTCTCCACAAAATACGTATATAACTAGTGTGCTTGTAGTAGTTAACTCCACCATCTTTGTAAGC  
TAATGAAATTGTGAGTCACCCATTTATATCTTAATTTTTAATCATGTGAGTTCTTGAATGGGTATCTCCTTAGCC  
TGCTGATTTCTTTTTCTTTCTAAAGAAAGTGGGTGGAGAAATTAATTTAGACGTTTGTGTTGCAATAAAAAGAATT  
CATTTT

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**FIGURE 639**

GGCGTTGCCGGCCGTGGGTGCTCTGGCCACAGTGAGTTAGGGGCGTCGGAGCGGGTTTCTCCAACCGCAATCGGC  
TCCGCTCAAGGGGAGGAGAGAGTCCCTTCTCGGAAGGCCTAAGGAAACGTGTCGTCTGGAATGGGCTTGGGGGC  
CACGCCTGCACATCTCCGCGAGACAGAGGGATAAAGTGAAGATGGTGCTGTTATTGTTACCTCGAGTGCCACATG  
CGACCTCTGAGATATGTACACAGTCATTCTTACTATCGCACTCAGCCATTCTTACTACGCTAAAGAAGAAATAAT  
TATTCGAGGATATTTGCCTGGCCCAGAAGAACTTATGTAAATTTTCATGAAGTATTATATCCGTTTTCTCGGAG  
TGAGAGAAAACCTTTTTAGATATCATCTGAGAGAACTAGTGAATCCAGTCACTGAGTGGAGTTGAGAGCTAA  
GAACCTCTGAAATTTGAGAACTGCTGGACCAGAGCCTTTAGAGCTCTGATAAGGTGTCAACAGGGTAGTTAATTT  
GGCACCATGGGGATACAGGGATTGCTACAATTTATCAAAGAAGCTTCAGAACCCATCCATGTGAGGAAGTATAAA  
GGGCAGGTAGTAGCTGTGGATACATATTGCTGGCTTCACAAAGGAGCTATTGCTTGTGCTGAAAACTAGCCAAA  
GGTGAACCTACTGATAGGTATGTAGGATTTTGTATGAAATTTGTAAATATGTTACTATCTCATGGGATCAAGCCT  
ATTCTCGTATTTGATGGATGTACTTTACCTTCTAAAAAGGAAGTAGAGAGATCTAGAAGAGAAAGACGACAAGCC  
AATCTTCTTAAGGGAAAGCAACTTCTTCGTGAGGGGAAAGTCTCGGAAGCTCGAGAGTGTTCACCCGGTCTATC  
AATATCACACATGCCATGGCCACAAAGTAATTAAGCTGCCCGGTCTCAGGGGGTAGATTGCCTCGTGGCTCCC  
TATGAAGCTGATGCGCAGTTGGCCTATCTTAACAAAGCGGGAATTGTGCAAGCCATAATTACAGAGGACTCGGAT  
CTCCTAGCTTTTGGCTGTAAAAAGGTAATTTTAAAGATGGACCAGTTTGGAAATGGACTTGAAATGATCAAGCT  
CGGCTAGGAATGTGCAGACAGCTTGGGGATGTATTACGGAAGAGAAGTTTCGTTACATGTGTATTCTTTTCAGGT  
TGTGACTACCTGTCTACTGCGTGGGATTGGATTAGCAAAGGCATGCAAAGTCCTAAGACTAGCCAATAATCCA  
GATATAGTAAAGGTTATCAAGAAAATTGGACATTATCTCAAGATGAATATCACGGTACCAGAGGATTACATCAAC  
GGGTTTATTCGGGCCAACAAATACCTTCTCTATCAGCTAGTTTTTGATCCCATCAAAGGAACTTATTCCTCTG  
AACGCCATGAAGATGATGTTGATCCTGAAACACTAAGCTACGCTGGGCAATATGTTGATGATTCCATAGCTCTT  
CAAATAGCACTTGGAATAAAGATATAAATACTTTTGAACAGATCGATGACTACAATCCAGCACTGCTATGCCT  
GCCCCATTCAAGAAGTCATAGTTGGGATGACAAAACATGTCAAAGTCAGCTAATGTTAGCAGCACTTTGGCATAGG  
AATTACTCTCCAGACCAGAGTCGGGTACTGTTTCAGATGCCCCACAATTGAAGGAAAATCCAAGTACTGTGGGA  
GTGGAACGAGTGATTAGTACTAAAGGGTTAAATCTCCCAAGGAAATCATCCATTGTGAAAAGACCAAGAAGTGCA  
GAGCTGTGAGAAGATGACCTGTTGAGTCAGTATTCTCTTTCATTTACGAAGAAGACCAAGAAAATAGCTCTGAA  
GGCAATAAATCATTGAGCTTTTCTGAAGTGTGTGTGCTGACCTGGTAAATGGACCTACTAACAAAAAGAGTGTA  
AGCACTCCACCTAGGACGAGAAATAAATTTGCAACATTTTACAAAGGAAAAATGAAGAAAGTGGTGCAGTTGTG  
GTTCCAGGGACCAGAAGCAGGTTTTTTTGCAGTTCAGATTCTACTGACTGTGTATCAAACAAAGTGAGCATCCAG  
CCTCTGGATGAACTGCTGTACAGATAAAGAGAACAATCTGCATGAATCAGAGTATGGAGACCAAGAAGGCAAG  
AGACTGGTTGACACAGATGTAGCACGTAATTCAAGTGATGACATTCCGAATAATCATATTCCAGGTGATCATATT  
CCAGACAAGGCAACAGTGTTTACAGATGAAGAGTCCCTACTCTTTTGAAGCAGCAAATTTACAAGGACCATTTC  
CCACCCACTTTGGGAACACTAAGAAGTTGTTTGTAGTTGGTCTGGAGGTCTTGGAGATTTTTCAAGAACGCCGAGC  
CCCTCTCAAGCACAGCATTCGAGCAGTTCCGAAGAAAGAGCGATTCCCCACCTCTTGCCTGAGAATAATATG  
TCTGATGTGTGCGAGTTAAAGAGCGAGGAGTCCAGTGACGATGAGTCTCATCCCTTACGAGAAGGGGCATGTTCT  
TACAGTCCCAGGAAAGTGGAGAATTCTCACTGCAGAGTTCAAATGCATCAAAGCTTTCTCAGTGTCTAGTAAG  
GACTCTGATTGAGAGGAATCTGATTGCAATATTAAGTTACTTGACAGTCAAAGTGACCAGACCTCCAAGCTATGT  
TTATCTCATTCTCAAAAAAAGACACACCTCTAAGGAACAAGGTTCTGGGCTATATAAGTCCAGTTCTGCAGAC  
TCTCTTTCTACAACCAAGATCAAACCTCTAGGACCTGCCAGAGCCAGTGGGCTGAGCAAGAAGCCGGCAAGCATC  
CAGAAGAGAAAGCATCATAATGCCGAGAACAAGCCGGGGTTACAGATCAAACCTCAATGAGCTCTGGAAAACTTT  
GGATTTAAAAAAGATTCTGAAAAGCTTCTCTCTTGTAAAGAACCCCTGTCCCAGTCAGAGATAACATCCAATA  
ACTCCAGAAGCGGAAGAGGATATATTTAACAACCTGAATGTGGCCGTGTTCAAAGAGCAATATTCCAGTAAATG  
CAGACTGTCTCAAAGCTTTTGCCTGCAAGAGAATCTGATCAATTTGAAGTCCCTGTTTGGGAATGAGGCATTAT  
CAGCATGAAGAATTTTTTCTCATTCTGTGCCATTTTAAAAATAGAATACATTTTGTATATTGACTTTAAAAAAA  
AAAAAAAAAAAAA

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**FIGURE 640**

MGIQGLLQFIKEASEPIHVRKYKGQVVAVDTYCWLHKGAIACAELAKGEPTDRYVGFCMKFVNMLLSHGKIPIL  
VFDGCTLPSSKKEVERSRERRRQANLLKGKQLLREGKVSEARECFTRSINITHAMAHKVIKAARSQGVDCLVAPYE  
ADAQLAYLNKAGIVQAIITEDSDLLAFGCKKVILKMDQFGNGLEIDQARLGMCRLGDVFTEEFKFRYMCILSGCD  
YLSSLRGIGLAKACKVLRANNPDIKVIKKIGHYLMKNITVPEDYINGFIRANNTFLYQLVFDPIKRKLIPLNA  
YEDDVDPETLSYAGQYVDDSIQIALGNKDINTFEQIDDPDTPAMPAHSRSHSWDDKTCQKSANVSSIWHRNY  
SPRPESGTVSDAPQLKENPSTVGVERVISTKGLNLPRKSSIVKRPRSAELSEDDLLSQYSLSFTKKTKKNSSEGN  
KSLSFSEVFPDLVNGPTNKKSVSTPPRTRNKFATFLQRKNEESGAVVVPGTRSRFFCSDSDTCVSNKVSIOPL  
DETAVIDKENNLHESEYGDQEGKRLVDTDVARNSSDDIPNNHIPGDHIPDKATVFTDEESYSFESSKFTRTISPP  
TLGTLRSCFSWSGGLGDFSRTPSPSPSTALQQFRRKSDSPTSLPENMSDVSQKSEESSDDESHPLREGACSSQ  
SQESGEFSLQSSNASKLSQCSSKSDSESDCNILKLDSDQTSKLCLSHFSKKDTPLRNKVPGLYKSSSADSL  
STTKIKPLGPARASGLSKKPASIQKRKHNAENKPGLIKLNLWKNFGFKKDEKLPPCKKPLSPVRDNIQLTP  
EAEEDIFNKPECGRVQRAIFQ

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**FIGURE 641**

TCTAATACCTATTGAICTGTCACTTTCTCCCATCACGCTCAGGTGGGACCATCCAGTTGCAGGAAAACAAGCTTA  
ACACGCCCACTGATTCTACATTATGGTGAGTTCTATAATTATTTATTATATATTACAGTGTAAATGGAATA  
AAGTGCCTAATAAATGCAAATGTGCTTACATCTTTTGGCCCAGCTCCTACCTCCTGGCAGCCTCTCCAGGCCCAG  
AACTTTCTCCAGTCAGCCTCTACAGACCAAGCTCATGACTCACAATGGCCTATTTAGGCCCATAACCTACGTCAC  
GGCAGTCTCCGCAGATGAGGCTACTGCCTCACAAACAGCCTCCACAGGCACAGCTCCATCGTTACAATGGCCTCTT  
TAGACCCAGCTCCTGCCITCCCAGCCTTCTCTCCAGGCCCTGAACTTTCTCAAGTCGACCTCACCAGGCCCAGCTC  
ATGCTTCTTTGCAGCCTCTCCAGGCCCAGCTCCTGCATCTTGGTGGCCCCCTCCAGGCCCAGCCTCTGCCTCCCGT  
CGGCCTCTACAGTCCCAACATCTGTCTCACAGCAGATTCTTCAGGCCCAGCATCTGCCTCACTTGGACCCTCCAG  
ACCCAGATGGTGTCTCACTGTGGCATCCTCAGGTGAAGCTCCTGCCTTTCGGCAGCCTCTCCAGGCCCAGCTCCT  
CCTGCCTCCCAGTGGCCTCTTTCGGGCCAGCCCAGCTCATGCCTCCCGGCGGCCTTCCCAAGCCCCGCTTTTGAC  
TTTCCACCGAAAGTCCCAGCCTCCTGCCTCCCGAAGGCCTGCACAGGCCCA



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**FIGURE 642**

GTCCACATGCAGAGGCTCGCTACAGAAGCTACAGAAGAAGATGGTTACATTTC AAGTGGGCAGGTGCCGTTTGCT  
TATGAGCACCATCAGCCACATCAGCCACGGTTCCTTTGAATTTTACCTAATTGTCTCTAATTCCTTAACAATTCTTT  
GAGGTGATCTGCAACTCTTTCACCATCTGTAATGCGGAGATGCAGGAAGTTGGTGTGGCCTATATCCCAGTATC  
TCTTTGCTCAATCAGCTGTGACCCCAACTGTTTCGATTGTGTTCAATGGGCCCCACCTCTTACTGCGAGCAGTC  
CGAGACATCGAGGTGGGAGAGGAGCTCACCATCTGCTACCTGGATATGCTGATGACCAGTGAGGAGCGCCGGAAG  
CAGCTGAGGGACCAGTACTGCTTTGAATGTGACTGTTTCCGTTGCCAAACCCAGGACAAGGATGCTGATATGCTA  
ACTGGTGATGAGCAAGTATGGAAGGAAGTTCAAGAATCCCTGAAAAAATTGAAGAACTGAAGGCACACTGGAAG  
TGGGAGCAGGTTCTGGCCATGTGCCAGGCAATCATAAGCAGCAATTCTGAACGGCTTCCCGATATCAACATCTAC  
CAGCTGAAGGTGCTCGACTGCGCCATGGATGCCTGCATCAACCTCGGCCTGTTGGAGGAAGCCTTGTTCTATGGT  
ACTCGGACCATGGAGCCATACAGGATTTTTTCCCAGGAAGCCATCCCGTCAGAGGGGTTCAAGTGATGAAAGTT  
GGCAAACCTGCAGCTACATCAAGGCATGTTTCCCAAGCAATGAAGAATCTGAGACTGGCTTTTGATATTATGAGA  
GTGACACATGGCAGAGAACACAGCCTGATTGAAGATTTGATTCTACTTTTAGAAGAATGCGACGCCAACATCAGA  
GCATCCTAAGGGAACGCAGTCAGAGGGAAATACGGCGTGTGTCTTTGTTGAATGCCTTATTGAGGTACACACTC  
TATGCTTTGTTAGCTGTGTGAACCTCTCCTATTGGAAATTCTGTTCCGTGTTTGTGTAGGTAAATAAAGGCAGAC  
ATGGTTTGCAAACCACAAGAATCATTAGTTGTAGAGAAGCACGATTATAATAAATTCAAAACATTTGGTTGAGGA  
TGCC

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**FIGURE 643**

CTTGCTTCGGACGCCGGATTTTGACGTGCTCTCGCGAGATTGGGTCTCTTCCTAAGCCGGCGCTCGGCAAGTTC  
TCCCAGGAGAAAGCCATGTTCAGTTCGAGCGCCAAGATCGTGAAGCCCAATGGCGAGAAGCCGGACGAGTTCGAG  
TCCGGCATCTCCCAGGCTCTTCTGGAGCTGGAGATGAACTCGGACCTCAAGGCTCAGCTCAGGGAGCTGAATATT  
ACGGCAGCTAAGGAAATTGAAGTTGGTGGTGGTCGGAAAGCTATCATAATCTTTGTTCCCGTTCCTCAACTGAAA  
TCTTTCCAGAAAATCCAAGTCGGCTAGTACGCGAATTGGAGAAAAAGTTCAGTGGGAAGCATGTCGTCTTTATC  
GCTCAGAGGAGAATTCTGCCTAAGCCAACCTCGAAAAAGCCGTACAAAAATAAGCAAAAGCGTCCCAGGAGCCGT  
ACTCTGACAGCTGTGCACGATGCCATCCTTGAGGACTTGGTCTTCCCAAGCGAAATTGTGGGCAAGAGAATCCGC  
GTCAAACTAGATGGCAGCCGGCTCATAAAGGTTCAATTTGGACAAAGCACAGCAGAACAATGTGGAACACAAGGTT  
GAAACTTTTTCTGGTGTCTATAAGAAGCTCACGGGCAAGGATGTTAATTTGAATTCCCAGAGTTTCAATTGTAA  
ACAAAAATGACTAAATAAAAAGTATATATTACAGTAAAAAAAAAAAAAAAAAAAA

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**FIGURE 644**

MFSSSAKIVKPNGEKPDEFESGISQALLELEMNSDLKAQLRELNITAAKEIEVGGGRKAIIFVVPVQLKSFQKI  
QVRLVRELEKKFSGKHVVFIAQRRILPKPTRKSRTKNKQKRPRSRTLAVHDAILEDLVFPSEIVGKRIRVKLDG  
SRLIKVHLDKAQQNNVEHKVETFSGVYKKLTGKDVNFEFPEFQL

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**FIGURE 645**

GGCACGAGGCGGGCCAGCGACGGGCAGGACGCCCCGTTGCGCTAGCGCGTGCTCAGGAGTTGGTGTCTGCTGCCTGC  
GCTCAGGATGAGGGGGAATCTGGCCCTGGTGGGCGTTCTAATCAGCCTGGCCTTCCTGTCACTGCTGCCATCTGG  
ACATCCTCAGCCGGCTGGCGATGACGCCTGCTCTGTGCAGATCCTCGTCCCTGGCCTCAAAGGGGATGCGGGAGA  
GAAGGGAGACAAAGGCGCCCCGGACGGCCTGGAAGAGTCGGCCCCACGGGAGAAAAAGGAGACATGGGGGACAA  
AGGACAGAAAGGCAGTGTGGGTCGTTCATGGAAAAATTGGTCCCATTGGCTCTAAAGGTGAGAAAGGAGATTCCGG  
TGACATAGGACCCCCCTGGTCCTAATGGAGAACCAGGCCTCCCATGTGAGTGCAGCCAGCTGCGCAAGGCCATCGG  
GGAGATGGACAACCAGGTCTCTCAGCTGACCAGCGAGCTCAAGTTCATCAAGAATGCTGTGCGCCGGTGTGCGCGA  
GACGGAGAGCAAGATCTACCTGCTGGTGAAGGAGGAGAAGCGCTACGCGGACGCCAGCTGTCTGCCAGGGCCG  
CGGGGGCACGCTGAGCATGCCCAAGGACGAGGCTGCCAATGGCCTGATGGCCGCATACCTGGCGCAAGCCGGCCT  
GGCCCGTGTCTTCAICGGCATCAACGACCTGGAGAAGGAGGGCGCCTTCGTGTACTCTGACCACTCCCCATGCG  
GACCTTCAACAAGTGGCGCAGCGGTGAGCCCAACAATGCCTACGACGAGGAGGACTGCGTGGAGATGGTGGCCTC  
GGGCGGCTGGAACGACGTGGCCTGCCACACCACCATGTACTTCATGTGTGAGTTTGACAAGGAGAACATGTGAGC  
CTCAGGCTGGGGCTGCCCATTGGGGGCCCCACATGTCCCTGCAGGGTTGGCAGGGACAGAGCCCAGACCATGGTG  
CCAGCCAGGGAGCTGTCCCTCTGTGAAGGGTGGAGGCTCACTGAGTAGAGGGCTGTTGTCTAAACTGAGAAAATG  
GCCTATGCTTAAGAGGAAAATGAAAGTGTTCTGGGGTGCTGTCTCTGAAGAAGCAGAGTTTCATTACCTGTATT  
GTAGCCCCAATGTCATTATGTAATTATTACCCAGAATTGCTCTTCATAAAGCTTGTGCCTTTGTCCAAGCTATA  
CAATAAAATCTTTAAGTAGTGCAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 646**

M R G N L A L V G V L I S L A F L S L L P S G H P Q P A G D D A C S V Q I L V P G L K G D A G E K G D K G A P G R P G R V G P T G E K G D M G D K G Q  
K G S V G R H G K I G P I G S K G E K G D S G D I G P P G P N G E P G L P C E C S Q L R K A I G E M D N Q V S Q L T S E L K F I K N A V A G V R E T E  
S K I Y L L V K E E K R Y A D A Q L S C Q G R G G T L S M P K D E A A N G L M A A Y L A Q A G L A R V F I G I N D L E K E G A F V Y S D H S P M R T F  
N K W R S G E P N N A Y D E E D C V E M V A S G G W N D V A C H T T M Y F M C E F D K E N M

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**FIGURE 647**

GGCACGAGGGGCTTCTGTACCTTCCTCACGGACCTTGGTCACGGCCGCAGGTGACCCCTTAGCCCAGCTCCAGT  
GGGCGGGTGGCAGGGTCATGGAGGACGCTGGCGGGCGCGAGGAGACCCCGGCCCCGAGGGCCCCGCACCCCCCTC  
AGCTCGCGCTCCGGAGGAGCAGGGGTTGCTCTTCCAGGAGGAAACCATCGATCTTGGCGGAGATGAGTTTGGAT  
CCGAAGAGAACGAGACCGCATCGGAAGGCTCGAGTCTCTCGCGGACAAGCTGAACGAACACATGATGGAGAGCG  
TCCTCATCTCTGACTCCCCAACAGCGAGGGCGACGCGGGCGACCTGGGCGGAGTGCGGGACGAAGCTGAGCCCCG  
GAGGGGAAGGCGACCCAGGCCCCGAGCCCCGCGGCACCCGAGTCCCAGCGGCGAGGCCGACGGCGACTGTGCCC  
CCGAGGACGCGGCACCCAGTAGCGGAGGGGCCCCGAGGCAGGACGCGGCCCGCGAGGTCCCAGGCAGCGAAGCCG  
CGCGCCCGGAGCAGGAGCCTCCCGTTGCGGAGCCGGTCCCGGTGTGCACCATCTTCAGCCAGCGCGCGCCCCCAG  
CCTCCGGGGACGGCTTCGAGCCGCAGATGGTGAAGTCGCCAGCTTCGGTGGCGCCAGCGAGGCCCTCGGCCAGGA  
CACCGCCCCAGGTCTGTGAGCCAGCCCGAGCCTCAGCACGTTCTTCGGAGACACGGCCGCCAGCCACTCCTTGG  
CCTCGGACTTCTTCGACTCCTTTACTACCTCCGCCTTCATTCCGTCAGCAATCCCGGCGCGGGCTCCCCGGCCC  
CCGCCAGCCCCGCTCCCCCTCGCTGTGCCGGGACCGAGGGGCGCCCCGAACCCGTGGCCATGCGAGGGCCCCAGG  
CAGTTCGCCCCCGGCGTCGCCAGAGCCTTTCGCGCACATCCAGGCAGTGTTCGAGGGAGTGACGACCCCTTTG  
CCACCGCCCTGAGCATGAGCGAGATGGACCGAGGAACGACGCTGGCTTCCCGGCGAGGCTACGCGTGGAGTCC  
TGCGGGCCGTGGCCACCCAGCAGCGCGGCGCGGTGTTCTGGACAAGGAGAACCTCACCATGCCGGGCCCTCAGGT  
TCGACAACATCCAGGGAGATGCAGTTAAAGACTTGATCTTCGCTTTCGGGTGAAAAAGCTGCAGCAAAGAGAC  
AAGTCTAAATGCCGACTCAGTGAACAATCTTTTGTGGATTGAAACAGCTAATCAGCTGCAGAACTGGAGGG  
CAGCAGTGGACCTGTGCGGACGTCTCTCACAGCCCACGGCCAGGGCTACGGCAAGAGCGGGCTGCTCACCAGCC  
ACACGACAGATTCACTGCAGCTCTGGTTTGTGAGGCTGGCACTACTAGTGAAGTTGGGCCTTTTCCAGAATGCTG  
AGATGGAATTTGAACCTTCGGAAATCTTGATCAGCCAGATCTTTATTACGAGTACTACCCGCACGTGTACCCTG  
GGCGCAGGGGCTCCATGGTCCCCCTTCTCGATGCGCATCTTGACGCGGAGCTCAGCAGTACCTGGGGAACCCAC  
AGGAGTCGCTGGATAGACTGCACAAGGTGAAGACTGTCTGCAGCAAGATCCTGGCCAATTTGGAGCAAGGCTTAG  
CAGAAGACGGCGGCATGAGCAGCGTGACTCAGGAGGGCAGACAAGCCTCTATCCGGCTGTGGAGGTCACGTCTGG  
GCCGGGTGATGTACTCCATGGCAAACCTGTCTGCTCCTGATGAAGGATTATGTGCTGGCCGTGGATGCGTATCATT  
CGGTATCAAGTATTACCCAGAGCAAGAGCCCCAGCTGCTCAGCGGCATCGCCGGATTTCCTCCAGATTGGAG  
ACATAAAAAACAGCTGAAAAGTATTTTCAAGACGTTGAGAAAGTAACACAGAAATTAGACGGACTACAGGGTAAAA  
TCATGGTTTTTGATGAACAGCGCGTTCCCTCACCTCGGGCAGAATAACTTTGCAGAAGCCACAGGTTCTTCACAG  
AGATCTTAAGGATGGATCCAAGAAACGCAGTGGCCAACAACAACGCTGCCGTGTGTCTGCTCTACCTGGGCAAGC  
TCAAGGACTCCCTGCGGCAGCTGGAGGCCATGGTCCAGCAGGACCCAGGCACTACCTGCACGAGAGCGTGCTCT  
TCAACCTGACCACCATGTACGAGCTGGAGTCTCACGGAGCATGCAGAAGAAACAGGCCCTGTGGAGGCTGTGCG  
CCGCAAGGAGGGGGACAGCTTCAACACACAGTGCCTCAAGCTGGCCTAGCTGCCTCCAACACACTACGTACAGAA  
GGACCCGGGTCTTTGAAACTGTGTCTTGAAGCTAATGTATTAATGTGACATGGAGGAACTCAATAAACTCCTGC  
TTCAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 648**

MLRFLGEKAAAKRQVLNADSVEQSFVGLKQLISCRNWRAAVDLCGRLLTAHGQGYGKSGLLTSHTTDSLQLWFVR  
LALLVKLGGLFQNAEMEFEPFGNLDQPDLYEYYPHVYPGRRGSMVPFSMRILHAELQQYLGNPQESLDRHLHKVKT  
VCSKILANLEQGLAEDGGMSSVTQEGRQASIRLWRSRLGRVMYSMANCLLLMKDYVLAVDAYHSVIKYYPEQEPQ  
LLSGIGRISLQIGDIKTAEKYFQDVEKVTQKLDGLQGKIMVLMNSAFLHLGQNNFAEAHRFFTEILRMDPRNAVA  
NNNAAVCLLYLGKLDKSLRQLEAMVQQDPRHYLHESVLFNLTTMYELESSRSMQKKQALLEAVAGKEGDSFNTQC  
LKLA

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**FIGURE 649**

AATTCTGGCACGAGAAGACTTCCAGTTTGGAGTCGTTTGCTGCGGGGAGGGAATGAATGGGCGCTGGGAACACGCC  
CGCGAGGTGGGGACGCGCCGGCCGTAGCGAGGTCCTTAGCGTGTGAGTGGCCGGGGTCGGGTCGCTTCCCCGCAG  
**CATG**GAGGACGATGCACCACTGATCTACGGGCTGGAGTTCCAGGCACGTGCCTTAACACCTCAAACCTGCAGAAAC  
AGATGCCATTTCGGTTTTTGGTTGGGACGCAGTCTCTTAAATATGATAATCAGATCCATATCATAGATTTTGACGA  
TGAAAACAACATTATAAAATAAAATGTCCTCCTCCATCAAGCGGGTGAAATCTGGCATATTAGCGCTAGCCCTGC  
AGACAGAGGTGTGCTGACGACCTGCTACAACAGAACTTCAGACAGCAAAGTCCTGACATGTGCAGCCGTGTGGAG  
GATGCCGAAGGAATTGGAATCAGGCAGCCACGAGTCCCCTGATGATTTCATCCAGCACTGCACAGACCCCTGGAGCT  
GCTCTGTACCTTGACAACACAGCCCATGGCAACATGGCCTGTGTCGTGTGGGAGCCAATGGGAGATGGGAAGAA  
AATCATTTTCCTTGGCTGATAACCATATCCTGCTGTGGGATTTACAGGAAAGCTCGAGCCAGGCTGTGCTGGCCAG  
CTCAGCGTCCCTGGAAGGGAAGGGACAACCTGAAGTTCACCTCAGGACGGTGGAGCCCACATCATAACTGCACCCA  
GGTGGCCACAGCGAACGACACCACTCCGTTGGCTGGGACACCCGGAGCATGAGCCAGATCTACTGCATAGAGAA  
TGCCACGGACAGCTGGTGGGGACCTTGACTTTAATCCCAATAAGCAGTACTACTTGGCCAGCTGCGGAGACGA  
CTGTAAGGTGAAGTTCTGGGACACCCGAAATGTCACCGAACCCGTGAAGACCCTGGAGGAGCACTCCCACTGGGT  
GTGGAACGTCCGCTACAACCACTCTCATGACCAGCTGGTCCTCACGGGCAGCAGTGACAGCAGAGTCATCCTTTC  
CAACATGGTGTCCATCTCGTTCGGAGCCCTTCGGCCACTTGGTAGACGACGATGACATCAGTGACCAGGAGGACCA  
CCGTTCTGAAGAGAAGAGCAAGGAGCCCTGCAGGACAACGTGATCGCCACCTACGAGGAGCACGAGGACAGCGT  
CTATGCCGTGGACTGGTCCTCGGCTGACCCGTGGCTGTTTGCCCTCCCTGAGCTATGACGGGAGGCTCGTGATCAA  
CAGGGTGCCAGGGCCCTGAAGTACCACATCCTGCTAT**TGA**CTCCCGGGCCTGGGTTATCCAGGTCCCATTGAGTG  
GTTTTCTCTTGGCAGATTCTCAAACAGTCGCAGCTCTTGGAGGTGACTCGTGTTCCAGGTGGATCCCTCTCTG  
GGAGAGCCGCTGTTCCCTTCCTGTAGCAGCAGCATTATGAATGGGGTGAATGGGGCTATTGTCGACGGCACAGC  
TAATGCCCCGAACCCAGCCCTGTGCGGCAGAGACAGAGCCCCACATTATTATGTGAATAACAATGTTTTCTGTTTT  
AAGGGTGTGAGGATTTTCGTTTTTAAAAAATGTCTGTTCTGCAGTAGTAACCTCTTCTTCTCTTGAGAGTAA  
AAAATGAAATAAAATAAATCCACGCTGACAAAAA



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**FIGURE 650**

MEDDAPVIYGLEFQARALTPQTAETDAIRFLVGTQSLKYDNQIHIIDFDDENNIINKNVLLHQAGEIWHISASPA  
DRGVLTTTCYNRTSDSKVLTCAAVWRMPKELESGSHESPDDSSSTAQTLELLCHLDNTAHGNMACVVWEPMGDGKK  
IISLADNHILLWDLQESSSQAVLASSASLEGKGQLKFTSGRWSPHHNCTQVATANDTTLRGWDTRSMSQIYCIEN  
AHGQLVRDLDFNPNKQYYLASCDDCKVKFWDTRNVTEPVKTL EEHSHWVWNVRYNHS HDQLVLTGSSDSRVILS  
NMVSI SSEPF GHLVDDDDISDQEDHRSEEKSKEPLQDNVIATYEEHEDSVYAVDWSSADPWLFASLSYDGR LVIN  
RVPRALKYHILL

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**FIGURE 651**

CCCAGGCGCAGCCAATGGGAAGGGTCGGAGGCATGGCACAGCCAATGGGAAGGGCCGGGGCACCAAAGCCAATGG  
GAAGGGCCGGGAGCGCGCGGGAGATTTAAAGGCTGCTGGAGTGAGGGGTCGCCGTGCACCCTGTCCCAG  
CCGTCTGTCTGGCTGCTCGCTGCTTCGCTGCGCCTCCACTATGCTCTCCCTCCGTGTCCCCTGCGGCCA  
TCACGGACCCGAGCAGCTGCTCGCCGCTGAAGGGCTCAGCTTGGTCGACAAGGAGAACACGCCGCCGG  
CCCTGAGCGGGACCCGCTCCTGGCCAGCAAGACCGGAGGAGGATCTTCCAGGAGCCACGGAGCCGAAACTA  
AAGCAGCTGCCCCGGCGTGGAGGATGAGCCGCTGCTGAGAGAAAACCCCGCGCTTTGTCATCTTCCCCATCG  
AGTACCATGATATCTGGCAGATGTATAAGAAGGCAGAGGCTTCCTTTTGGACCGCCGAGGAGGTTGACCTCTCCA  
AGGACATTACAGCACTGGGAATCCCTGAAACCCGAGGAGAGATATTTATATCCCATGTTCTGGCTTTCTTTGCAG  
CAAGCGATGGCATAGTAAATGAAACTTGGTGGAGCGATTTAGCCAAGAAGTTCAGATTACAGAAGCCCGCTGTT  
TCTATGGCTTCCAAATTGCCATGGAAAACATACATTCTGAAATGTATAGTCTTCTTATTGACACTTACATAAAAG  
ATCCCAAAGAAAGGGAATTTCTTCAATGCCATTGAAACGATGCCTTGTGTCAAGAAGAAGGCAGACTGGGCCT  
TGCGCTGGATTGGGGACAAAGAGGCTACCTATGGTGAACGTGTTGTAGCCTTTGCTGCAGTGGAAGGCATTTTCT  
TTTCCGGTTCTTTTGCCTCGATATTCTGGCTCAAGAACGAGGACTGATGCCTGGCCTCACATTTTCTAATGAAC  
TTATTAGCAGAGATGAGGGTTTACACTGTGATTTTGGCTTGCCTGATGTTCAAACACCTGGTACACAAACCATCGG  
AGGAGAGAGTAAGAGAAATAATTATCAATGCTGTTCCGATAGAACAGGAGTTCCTCACTGAGGCCTTGCTGTGA  
AGCTCATTGGGATGAATTGCACTCTAATGAAGCAATACATTGAGTTTGTGGCAGACAGACTTATGCTGGAACCTGG  
GTTTTAGCAAGGTTTTTCAAGTAGAGAACCCATTTGACTTTTATGGAGAATATTTCACTGGAAGGAAAGACTAACT  
TCTTTGAGAAGAGAGTAGGCGAGTATCAGAGGATGGGAGTGATGTCAAGTCCACAGAGAATTCTTTTACCTTGG  
ATGCTGACTTCTAAATGAAGTGAAGATGTGCCCTTACTTGGCTGATTTTTTTTTTCCATCTCATAAGAAAAATCA  
GCTGAAGTGTTACCAACTAGCCACACCATGAATTGTCCGTAAATGTTTATTAAACAGCATCTTTAAACTGTGTAGC  
TACCTCACAACCACTGCTGCTGTTTATAGTGCTGGTAGTATCACCTTTTGCCAGAAGGCCTGGCTGGCTGTGAC  
TTACCATAGCAGTGACAATGGCAGTCTTGGCTTTAAAGTGAGGGGTGACCCTTTAGTGAGCTTAGCACAGCGGGA  
TTAAACAGTCTTTTAAACAGCACAGCCAGTTAAAGATGCAGCCTCACTGCTTCAACGCAGATTTTAAATGTTTAC  
TTAAATATAAACCTGGCACTTTACAAACAAATAAACATTGTTTGTACTCACGGCGGCGATAATAGCTTGATTTA  
TTTGGTTTCTACACCAAATACATTCTCCTGACCCTAATGGGAGCCAATTCACAATTCACTAAGTGACTAAAGTA  
AGTTAACTTGTGTAGACTAAGCATGTAATTTTTTAAGTTTTATTTTAAATGAATTAATAATTTTGTAAACCACTT  
TAAAGTCAGTCTGTGTATACCTAGATATTAGTCAGTTGGTGCCAGATAGAAGACAGGTTGTGTTTTATCCTGT  
GGCTTGTGTAGTGTCTGGGATTCCTGCCCCCTCTGAGTAGAGTGTTGTGGGATAAAGGAATCTCTCAGGGCAA  
GGAGCTTCTTAAGTTAAATCACTAGAAATTTAGGGGTGATCTGGGCCTTCATATGTTGTAGAAGCCGTTTCATT  
TATTTCTCACTGTATTTTCTCAACGTCTGGTTGATGAGAAAAAATCTTGAAGAGTTTTCATATGTGGGAGCTA  
AGGTAGTATTGTAAATTTCAAGTCATCCTTAAACAAAATGATCCACCTAAGATCTTGCCCCGTAAAGTGGTGA  
AATCAACTAGAGGTGGTTCTTACAAGTTGTTTATTCTAGTTTTGTTTGGTGTAAAGTAGGTTGTGTAGTTAATTC  
ATTTATATTTACTATGTCTGTTAAATCAGAAATTTTTTATTATCTATGTTCTTCTAGATTTTACCTGTAGTTTCAT  
AAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 652**

MLSLRVFLAPITDPQQQLSPLKGLSLVDKENTPPALSGTRVLASKTARRIFQEPTEPKTKAAAPGVEDEPLLRE  
NPRRFVIFPIEYHDIWQMYKKAEASFWTAEVDLSKDIQHWESLKPEERYFISHVLAFFAASDGIVNENLVERFS  
QEVQITEARCFYGFQIAMENIHSEMYSLIDITYIKDPKEREFLFNAIETMPCVKKKADWALRWIGDKEATYGERV  
VAFAAVEGIFFSGSFASIFWLKKRGLMPGLTFSNELISRDEGLHCDFACLMFKHLVHKPSEERVREIIINAVRIE  
QEFLTEALPVKLIGMNCTLMKQYIEFVADRLMLELGF SKVFRVENPFD FMENISLEGKTNFFEKRVG EYQRMGVM  
SSPTENSFTLDADF

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**FIGURE 653**

GTCGCTGAGGCGCCCATGGCCTTCGCCCGCCGGCTCCTGCGCGGGCCACTGTCGGGGCCGCTGCTCGGGCGGGCGC  
GGGGTCTGCGCTGGGGCCATGGCTCCGCCGCGCCGCTTCGTCTGGAGCTTCCCGACTGCACCCTGGCTCACTTC  
GCCCTAGGCGCCGACGCCCCGGCGACGCAGACGCCCCGACCCCGCTGGCGGGCGCTGCTGGGGCCCCGGAG  
CGCAGCTACTCGCTGTGCGTGCCCGTGACCCCGACGCCGGCTGCGGGGCCGGGTCCGGGGCGCGCGGCTGCAC  
CAGCGCCTGCTGCACCAGCTGCGCCGCGGCCCTTCCAGCGGTGCCAGCTGCTCAGGCTGCTCTGCTACTGCCCG  
GGCGGCCAGGCCGGCGGCGCACAGCAAGGCTTCCTGCTGCGCGACCCCTGGATGACCCTGACACCCGGCAAGCG  
CTGCTCGAGCTGCTGGGCGCCTGTGAGGAGGCACCACGCCCGCACTTGGGCGAGTTCGAGGCCGACCCGCGCGGC  
CAGCTGTGGCAGCGCCTCTGGGAGGTGCAAGACGGCAGGCGGCTGCAGGTGGGCTGCGCACAGGTCTGCCCCGT  
CCGGAGCCCCCGCTGCACCCGGTGGTGCCAGACTTGCCAGTTCCGTGGTCTTCCCGACCCGGAAGCCGCCCGG  
GCCGTTTTGGAGGAGTGTACCTCCTTTATTCCTGAAGCCCGGCAGTGCTTGACCTGGTCGACCAGTGCCCAAAA  
CAGATCCAGAAAGGAAAGTTCCAGGTTGTTGCCATCGAAGGACTGGATGCCACGGGTAAAACCAGGTGACCCAG  
TCAGTGGCAGATTCACTTAAGGCTGTCTCTTAAAGTCACCACCTCTTGCATTGGCCAGTGGAGGAAGATCTTT  
GATGATGAACCAACTATCATTAGAAGAGCTTTTACTCTTTGGGCAATTATATTGTGGCCTCCGAAATAGCTAAA  
GAATCTGCCAAATCTCCTGTGATTGTAGACAGGTACTGGCACAGCACGGCCACCTATGCCATAGCCACTGAGGTG  
AGTGGGGGTCTCCAGCACCTGCCCCAGCCCATCACCTGTGTACCAAGTGGCCAGAGGACCTGCTCAAACCTGAC  
CTTATCTGCTGCTCACTGTGAGTCTGAGGAGAGGTGCGAGAGGCTGCAGGGCCGGGCGATGGAGAAGACCAGG  
GAAGAAGCAGAACTTGAGGCCAACAGTGTGTTTCGTCAAAAGGTAGAAATGTCTACCAGCGGATGGAGAATCCT  
GGCTGCCATGTGGTTGATGCCAGCCCCCTCCAGAGAAAAGTCTGCAGACGGTATTAAAGCCTAATCCAGAATAGT  
TTTAGTGAACCGTAGTTACTCTGGCCAGGTGCCACGTCTAAGTAGATTAGATGTTGTTTGAACATCTACATCCA  
CCATTTGTTATGCAGTGTTCCTCAAAATTTCTGTTCTACAAGCATGTTGTGTGGCAGAAAAGTGGAGACCAGCATC  
TTAATTTTACTTCAGCCATCGTACCCTCTTCTGACTGATGGACCCGTATCACAAAGTCCCTCTCATCATGTTT  
CAGTGAGAGGCCAGCGATTGCTTTCTTCTGGCATAGTAAACATTTCTTGGACATATGTTTCACTTAATCACT  
ACCAATATCTGGAAGACCTGTCTTACTCAGACAGCACAGGTGTACAGAAGCAGCAGACAAGATCTTCCAGATC  
AGCAGGGAGACCCCGGAGCCTCTGCTTCTCCTACTGGCATGTGATGAGATCGTGACATGCCACATTGGCTT  
CTTCCACATCTGGTTGCACTCGTCATGATGGGCTCGCTGCATCTCCCTCAGTCCCAATTCAGAGCCAAGTGT  
CCTGCAGAGGCTGTCTATGTGCTGAGGCTCAGAGCCCTTTGATAGGCTTCTGAGTCATATATAAAGACATTC  
CAAAGAAGGCATTGATCTTGTGTCTGAGGCTCAGAGCCCTTTGATAGGCTTCTGAGTCATATATAAAGACATTC  
AAGCCAAGATGCTCCAATGCAATATACCAACCTTCTCTGAATTATATTTGCTTATTTATTTCTTTCTTT  
TTTTCTAAAGTATGGCTCTGAATAGAATGCACATTTTCCATTGAACTGGATGCATTTCAATTAGCCAATCCAGTA  
ATTTATTTATATTAATCTATACATAATATGTTTCTCAGCATAGGAGCTATGATTCAATTAATTAAGTGGAGTC  
AAAACGCTAAATGCAATGTTTGTGTGATTTTTCATTACACAACTTAATTTGTCTTGTAAATAAGTACAGTGG  
ATCTTGGAGTGGGATTTCTTGGTAAATATCTTGCACCTGAATGTCTCATGATTACATATGAAATCGCTTTGACA  
TATCTTTAGACAGAAAAAGTAGCTGAGTGAGGGGAAATATAGAGCTGTGTGACTTTAGGGAGTAGGTTGAAC  
CAGGTGATTACCTAAAATTCCTTCCAGTTCAAAGGCAGATAAATCTGTAAATTATTTATCTATCTACCATTTT  
TTAAGAAGACATTACTCCAAAATAATTAAATTTAAGGCTTATCAGGTCTGCATATAGAATCTTAAATCTAATA  
AAGTTTCATGTTAATGTCATAGGATTTTAAAAGAGCTATAGGTAATTTCTATATAATATGTGTATATTAAGT  
TAAATTGATTTAGTTGAAAGTATTTTAAAGCTGATAAATAGCAATTAGGGTTCTTTGCAATGTGGTATCTAGCTGT  
ATTATTGGTTTTATTTACTTTAAACATTTTAAAAGCTTACTGGCAGCCTAGAAAAACAAACAATTAATGTAT  
CTTTATGTCCCTGGCACATGAATAAACTTTGCTGTGGTTTACT

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**FIGURE 654**

MAFARRLLRGPLSGPLLGRRGVCAGAMAPPRRFVLELPDCTLAHFALGADAPGDADAPDPRLAALLGPPERSYSL  
CVPVTPDAGCGARVRAARLHQRLHQLRRGPFQRCQLRLLCYCPGGQAGGAQQGFLLRDPLDDPDTRQALLELL  
GACQEAPRPHLGFEADPRGQLWQRLWEVQDGRRLQVGCAQVVPVPEPPLHPVVPDLPSSVVFPDREAARAVLEE  
CTSFIEARAVLDLVDQCPKQIQKGKFQVVAIEGLDATGKTTVTQSVADSLKAVLLKSPPSCIGQWRKIFDDEPT  
IIRAFYSLGNYIVASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQHLPPAHHVPYQWPEDLLKPDILILL  
TVSPEERLQRLQGRGMEKTREEAELEANSVFRQKVMSYQRMENPGCHVVDASPSREKVLQTVLSLIQNSFSEP

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**FIGURE 655**

GTGGTGGGACTCGCGTCGCGGCCGCGGAGACGTGAAGCTCTCGAGGCTCCTCCCGCTGCGGGTCGGCGCTCGCCC  
TCGCTCTCCTCGCCCTCCGCCCCGGCCCCGGCCCCGCGCCCGCCATGGAGAAGACTGAGCTGATCCAGAAGGCCA  
AGCTGGCCGAGCAGGCCGAGCGCTACGACGACATGGCCACCTGCATGAAGGCAGTGACCGAGCAGGGCGCCGAGC  
TGTCCAACGAGGAGCGCAACCTGCTCTCCGTGGCCTACAAGAACGTGGTCGGGGGCCGAGGTCGGCCTGGAGGG  
TCATCTCTAGCATCGAGCAGAAGACCGACACCTCCGACAAGAAGTTGCAGCTGATTAAGGACTATCGGGAGAAAG  
TGGAGTCCGAGCTGAGATCCATCTGCACCACGGTGCTGGAATTGTTGGATAAATATTTAATAGCCAATGCAACTA  
ATCCAGAGAGTAAGGTCTTCTATCTGAAAATGAAGGGTGATTACTTCCGGTACCTTGCTGAAGTTGCGTGTGGTG  
ATGATCGAAAACAAACGATAGATAATTCCCAAGGAGCTTACCAAGAGGCATTGATATAAGCAAGAAAGAGATGC  
AACCACACACCCCAATCCGCTGGGGCTTGCTCTTAACCTTTTCTGTATTTTACTATGAGATTCTTAATAACCCAG  
AGCTTGCCGTGCAGCTGGCTAAAACGGCTTTTGATGAGGCCATTGCTGAACTTGATACACTGAATGAAGACTCAT  
ACAAAGACAGCACCCCTCATCATGCAGTTGCTTAGAGACAACCTAACACTTTGGACATCAGACAGTGCAGGAGAAG  
AATGTGATGCGGCAGAAGGGGCTGAAAACTAAATTCCATACAGGGTGTCATCCTTCTTTCCTTCAAGAAACCTTTT  
TACACATCTCCATTCTTATTCACCTTGGATTTCTATAGCAAAGAAACCCATTTCATGTGTATGGAATCAACTGT  
TTATAGTCTTTTACACTGCAGCTTTGGGAAAACCTTCATTCTTGTATTGTGTTTGTCTTGGCCTTCCCTGGTGTG  
CAGTACTGCTGTAGAAAAGTATTAATAGCTTCATTTCATATAAACATAAGTAACCTCCCAAACACTTATGTAGAGG  
ACTAAAAATGTATCTGGTATTTAAGTAATCTGAACCGATTCTGCAAGTGAAGTGTGTTTTGTATTACTGTGAAAAT  
AAGAAAATGTAGTTAATTACAATTTAAAGAGTATTCACATAACTTCTTAATTTCTACATTCCTTCCCTTACTCT  
TCGGGGGTTTTCTTTTCAGTAAGCAACTTTTCCATGCTCTTAATGTATTCTTTTTAGTAGGAATCCGGAAGTATT  
AGATTGAATGGAAAAGCACTTGCCATCTCTGTCTAGGGGTCACAAATTGAAATGGCTCCTGTATCACATACGGAG  
GTCTTGTGTATCTGTGGCAACAGGGAGTTTCTTATTCACTCTTTATTTGCTGCTGTTTAAGTTGCCAACCTCCC  
CTCCCAATAAAAAATTCACCTTACACCTCCTGCCTTTGTAGTTCTGGTATTCACTTTACTATGTGATAGAAGTAGCA  
TGTGTCTGCCAGAATACAAGCATTGCTTTTGGCAAATTAAAGTGCATGTCATTTCTTAATACACTAGAAAGGGGA  
AATAAATTAAAGTACACAAGTCCAAGTCTAAAACCTTTAGTACTTTTCCATGCAGATTGTGCACATGTGAGAGGG  
TGTCAGTTTGTCTAGTGATTGTTATTTAGAGAGTTGGACCACTATTGTGTGTTGCTAATCATTGACTGTAGTCC  
CAAAAAAGCCTTTGTGAAAATGTTATGCCCTATGTAACAGCAGAGTAACATAAAATAAAAGTACATTTTATAAACC  
ATTTACTATGGCTTTGTAACAATTGCATACCCATATTTTAAAGGGACAGGTGAATTTACTACTTTCTAAAGTTTAT  
TGATACTTCCCTTTTATGTAAAATGTAGTAGTGATACCTATATTTCCACATTGTGCATTGTGACACACTTGTCTA  
GGGATGCCTGGAAGTGATAAAATTGGACTGCATTTCTTAGAGTGTTTTACTATAGATCAGTCTCATGGGCCATC  
TCTTCTCAGATGTAAATGATATCTGGTTAAGTGTTATATGGAATAAAGTGGACATTTTAAACTA

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**FIGURE 656**

MEKTELIQKAKLAEQAERYDDMATCMKAVTEQGAELSNEERNLLSVAYKNVVGRRSAWRVISSIEQKTDTSDDK  
LQLIKDYREKVESELRSICTTVLELLDKYLIANATNPESKVFYLMKGDYFRYLAEVACGDDRKQTIDNSQGAYQ  
EAFDISKKEMQPTHPIRLGLALNFSVFYYEILNNPELACTLAKTAFDEAIAELDTLNEDSYKDSTLIMQLLRDNL  
TLWTSDSAGEECDAAEGAEN

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**FIGURE 657**

GGCACGAGGCTCCGGTGTGTCTGTCGGTTGCAGTGTGGAGGTCGGCGCCGGCCCCCGCCTTCCGCGCCCCCAC  
GGGAAGGAAGCACCCCCGGTATTAAACGAACGGGGCGGAAAGAAGCCCTCAGTCGCCGGCCGGGAGGCGAGCCG  
ATGCCGAGCTGCTCCACGTCCACCATGCCGGGCATGATCTGCAAGAAGCCAGACCTCGAGTTTGAAGCTACAG  
CCCTGCTTCTACCCGGACGAAGATGACTTCTACTTCGGCGGCCCCGACTCGACCCCCCGGGGAGGACATCTGG  
AAGAAGTTTGAGCTGCTGCCCACGCCCCCGCTGTGCGCCAGCCGTGGCTTCGCGGAGCACAGCTCCGAGCCCCG  
AGCTGGGTACGGAGATGCTGCTTGAGAACGAGCTGTGGGGCAGCCCGGCCGAGGAGGACGCGTTCCGGCTGGGG  
GGACTGGGTGGCTCACCCTCAACCCGGTCATCTCCAGGACTGCATGTGGAGCGGCTTCTCCGCCGCGAGAAG  
CTGGAGCGCGCGGTGAGCGAGAAGCTGCAGCACGGCCGCGGGCCGCCAACCAGCCGGTTCCACCGCCAGTCCCGG  
GGAGCCGGCGCGGCCAGCCCTGCGGGTTCGCGGGCAGCGCGGGGTGCGGGAGCCGGCCGCGCGGGGCCGCCCTG  
CCCGCCGAGCTCGCCCAACCCGGCCGCGAGTGCCTGGATCCCGCCGTGGTCTTCCCTTTCCCGTGAACAAGCGC  
GAGCCAGCGCCCGTGCCCGCAGCCCCGGCCAGTGCCTCGGCGGGCCCTGCGGTGCGCTCGGGGGCGGGTATT  
GCCGCCCCAGCCGGGGCCCCGGGGGTGCGCCCTCCGCGCCAGGCGGCCGCCAGACCAGCGGGCGACACAAG  
GCCCCAGTACCTCCGGAGAGGACACCTGAGCGATTGAGATGATGAAGATGATGAAGAGGAAGATGAAGAGAA  
GAAATCGACGTGGTCACTGTGGAGAAGCGGCGTTCCTCCTCCAACACCAAGGCTGTCAACACATTCAACATCACT  
GTGCGTCCCAAGAACGAGCCCTGGGTCCCGGGAGGGCTCAGTCCAGCGAGCTGATCCTCAACAGATGCCTTCCC  
ATCCACAGCAGCACAACTATGCCGCCCCCTCTCCCTACGTGGAGAGTGAGGATGCACCCCCACAGAAGAAGATA  
AAGAGCGAGGCGTCCCCACGTCCGCTCAAGAGTGTATCCCCCAAAGGCTAAGAGCTTGAGCCCCCGAACTCT  
GACTCGGAGGACAGTGAGCGTCGCAGAAACCACAACATCCTGGAGCGCCAGCGCCGCAACGACCTTCGGTCCAGC  
TTTCTACGCTCAGGGACCAGTGCCGGAGTTGGTAAAGAATGAGAAGGCCGCCAAGGTGGTCATTTTGAAAAAG  
GCCACTGAGTATGTCCACTCCCTCCAGGCCGAGGAGCACCAGCTTTTGCTGGAAAAGGAAAAATTGCAGGCAAGA  
CAGCAGCAGTTGCTAAAGAAAATTGAACACGCTCGGACTTGCTAGACGCTTCTCAAAACTGGACAGTCACTGCCA  
CTTTGCACATTTTGATTTTTTTTTTAAACAAACATTGTGTGACATTAGAATGTTGGTTTACTTTCAAATCGGT  
CCCCTGTCGAGTTCCGGCTCTGGGTGGGCAGTAGGACCACAGTGTGGGGTTCGCTGGGACCTTGGAGAGCCTGC  
ATCCCAGGATGCTGGGTGGCCCTGCAGCCTCCTCCACCTCACCTCCATGACAGCGCTAAACGTTGGTGACGGTTG  
GGAGCCTCTGGGGCTGTTGAAGTCACCTTGTGTGTTCCAAGTTTCCAACAACAGAAAGTCATTCCCTTCTTTTTA  
AAATGGTGCTTAAGTTCCAGCAGATGCCACATAAGGGGTTTGCCATTTGATACCCCTGGGGAACATTTCTGTAAA  
TACCATTGACACATCCGCCTTTTGTATACATCCTGGGTAATGAGAGGTGGCTTTTGCGGCCAGTATTAGACTGGA  
AGTTTATGTAAGTACTGTAATAATACCTCAATGTTTGAGGAGCATGTTTTGTATACAAATATATTGTTAATCT  
CTGTTATGTAAGTACTGTAATAATACCTCAATGTTTGAGGAGCATGTTTTGTATACAAATATATTGTTAATCT  
TTATATTTTCGTATGAAAATGAGTTGTGAAAGTTTTGAGTAGATATTACTTTTATCACTTTTTGAACTAAGAACT  
TTTGTAAGAAATTTACTATATATATATGCTTTTTCCTAGCCTGTTTCTTCTGTTAATGTATTGTTTCATGTT  
TGGTGCAAGAACTGGGTAAATGCAAGTTCTGTGTTTAAATTTCTTCAAATGTATATATTTAGTGTGCATCTT  
ATAGCACTTTGAAATACCTCATGTTTATGAAAATAAATAGCTTAAATTAAAAAAAAAAAAAAAAAA



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**FIGURE 658**

MPSCSTSTMPGMICKNPDLEFDSLQPCFYDDEDDFYFGGPDSTPPGEDIWKKFELLPTPPLSPSRGFAEHSSEPP  
SWVTEMLLENELWGSPAEDAFGLGGLGGLTPNPVILQDCMWSGFSAREKLERAVSEKLQHGRGPPTAGSTAQSP  
GAGAASPAGRGHGGAAGAGRAGAALPAELAHPAECVDPVAVFFFPVNKREPAPVPAAPASAPAAGPAVASGAGI  
AAPAGAPGVAPPRPGGRQTSGGDHKALSTSGEDTSDSDDEDEDEEEDDEEIDVVTVEKRRSSSNTKAVTTFTIT  
VRPKNAALGPGRAQSSELILKRCLPIHQHNYAAPSPYVESEDAPPQKKIKSEASPRPLKSVIPPKAKSLSPRNS  
DSEDSERRRNHNILERQRRNDLRSSFLTLDHVPPELVKNEKAAKVILKKATEYVHSLQAEHQLLLEKEKLQAR  
QQLLKKIEHARTC

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**FIGURE 659**

GTCAGTCCCTCCTGTAGCCGCCGCCGCCGCCGCCGCCCTCTGCCAGCAGCTCCGGCGCCACCTCGGGCCG  
GCGTCTCCGGCGGGCGGGAGCCAGGCGCTGACGGGCGCGGGCGGGCGGGCGAGCGCTCCTGCGGCTGCGACTCA  
GGCTCCGGCGTCTGCGCTTCCCCATGGGGCTGGCCTGCGGCGCCTGGGCGCTCTGAGATTGTCACTGCTGTTCCA  
AGGGCACACGCAGAGGGATTGGAATTCCTGGAGAGTTGCCTTTGTGAGAAGCTGGAATATTTCTTTCAATTCC  
ATCTCTTAGTTTTCCATAGGAACATCAAGAAATCATGAACAACCTTTGGTAATGAAGAGTTTGACTGCCACTTCCT  
CGATGAAGGTTTTACTGCCAAGGACATTCTGGACCAGAAAATTAATGAAGTTTCTTCTCTGATGATAAGGATGC  
CTTCTATGTGGCAGACCTGGGAGACATTCTAAAGAAACATCTGAGGTGGTTAAAAGCTCTCCCTCGTGTCACCCC  
CTTTTATGCAGTCAAATGTAATGATAGCAAAGCCATCGTGAAGACCTTGCTGCTACCGGGACAGGATTTGACTG  
TGCTAGCAAGACTGAAATACAGTTGGTGCAGAGTCTGGGGGTGCCTCCAGAGAGGATTATCTATGCAAAATCCTTG  
TAAACAAGTATCTCAAATTAAGTATGCTGCTAATAATGGAGTCCAGATGATGACTTTTGATAGTGAAGTTGAGTT  
GATGAAAGTTGCCAGAGCACATCCCAAAGCAAAGTTGGTTTTGCGGATTGCCACTGATGATTCCAAAGCAGTCTG  
TCGTCTCAGTGTGAAATTCGGTGCCACGCTCAGAACCAGCAGGCTCCTTTTGGAACGGGCGAAAGAGCTAAATAT  
CGATGTTGTTGGTGTGTCAGCTTCCATGTAGGAAGCGGCTGTACCGATCCTGAGACCTTCGTGCAGGCAATCTCTGA  
TGCCCGCTGTGTTTTGACATGGGGGCTGAGGTTGGTTTTCAGCATGTATCTGCTTGATATTGGCGGTGGCTTTCC  
TGGATCTGAGGATGTGAACTTAAATTTGAAGAGATCACCGCGTAATCAACCCAGCGTTGGACAAATACTTTCC  
GTCAGACTCTGGAGTGAGAATCATAGCTGAGCCCGGCAGATACTATGTTGCATCAGCTTTCACGCTTGCAGTTAA  
TATCATTGCCAAGAAAATTGTATTAAAGGAACAGACGGGCTCTGATGACGAAGATGAGTCGAGTGAGCAGACCTT  
TATGTATTATGTGAATGATGGCGTCTATGGATCATTTAATTGCATACTCTATGACCACGCACATGTAAAGCCCCT  
TCTGCAAAAGAGACCTAAACCAGATGAGAAGTATTATTCATCCAGCATATGGGGACCAACATGTGATGGCCTCGA  
TCGGATTGTTGAGCGCTGTGACCTGCCTGAAATGCATGTGGGTGATTGGATGCTCTTTGAAAACATGGGCGCTTA  
CACTGTTGCTGCTGCTTACGTTCAATGGCTTCCAGAGGCGGACGATCTACTATGTGATGTCAGGGCCTGCGTG  
GCAACTCATGCAGCAATTCAGAACCCGACTTCCCACCGAAGTAGAGGAACAGGATGCCAGCACCCCTGCCTGT  
GTCTTGTGCTGCGGAGAGTGGGATGAAACGCCACAGAGCACCTGTGCTTCGGCTAGTATTAATGTGTAGATAGC  
ACTCTGGTAGCTGTAACTGCAAGTTTAGCTTGAATTAAGGGATTGGGGGGACCATGTAACCTAATTACTGCTA  
GTTTTGAAATGTCTTTGTAAGAGTAGGGTCGCCATGATGCAGCCATATGGAAGACTAGGATATGGGTCACACTTA  
TCTGTGTTCCATGGAACATTTTGAATATTTGTTTTATATGGATTTTTTATCACTCTTCAGACACGCTACTCAA  
GAGTGCCCTCAGCTGCTGAACAAGCATTTGTAGCTTGTACAATGGCAGAATGGGCCAAAAGCTTAGTGTTGTGA  
CCTGTTTTTAAATAAAGTATCTTGAATAATTAGGC

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**FIGURE 660**

MNNEFGNEEFDCHFLDEGFTAKDILDQKINEVSSSDDKDAFYVADLGDILKKHLRWLALPRVTPFYAVKCNDKA  
IVKTLAATGTGFDCASKTEIQLVQSLGVPPERIIYANPCKQVSQIKYAANNGVQMMTFDSEVELMKVARAHPKAK  
LVLRIATDDSKAVCRLSVKFGATLRTSRLLLERAKELNIDVVGVSFHVSGSGCTDPETFVQAISDARCVFDMGAEV  
GFSMYLLDIGGGFPGSEDVKLKFEETGVINPALDKYFPSDSGVRIIAEPGRYYVASAFTLAVNIIAKKIVLKEQ  
TGSDDEDESSEQTFMYVNDGVYGSFNCILYDHAHVKPLIQKRPKPDEKYYSSSIWGPTCDGLDRIVERCDLPEM  
HVGDWMLFENMGAYTVAAASTFNGFQRPTIYYVMSPAWQLMQQFQNPDPPEVEEQDASTLPVSCAWESGMKRH  
RAACASASINV

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**FIGURE 661**

ATGAGTCAGCAGCGGCCGCGGAGGAAGTTACCCAGTCTCCTCCTGGACCCGACGGAGGAGACGGTTCGCCGTCGG  
TGCCGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAATAAGGATTAATTTAGAAGATAATGTACAATAT  
GTGTCCATGAGAAAAGCTCTAAAAGTGAAGAGACCTCGTTTTGATGTATCGCTGGTTTATTTAACTCGAAAATTT  
ATGGATCTTGTGAGATCTGCTCCCGGGGGTATTCTTGACTTAAACAAGGTTGCAACGAAACTGGGAGTCCGAAAG  
CGGAGAGTGTATGACATCACCAATGTCTTAGATGGAATCGACCTCGTTGAAAAGAAATCCAAGAACCATATTAGA  
TGGATAGGATCTGATCTTAGCAATTTTGGAGCAGTTCCCCAACAAAAGAAGCTACAGGAGGAACTTTCTGACTTA  
TCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTTGAGTTAACAGATGACAAA  
GAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTAGGCCTTCCATGAACAGATCGTCATT  
GCAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCAGAGAAGACTCTATCACAGTGCACATAAGG  
AGCACCAACGGACCTATCGATGTCTATTTGTGTGAAGTGGAGCAGGGTCAGACCAGTAACAAAAGGCTGAAGGT  
GTGGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAAATCCTCAGCAAAGTGAAGAA  
TTGCTTGAAGTAAGCAACTGATGGCATTGAGAATTTATGTATCACTGAGTTTTTGGGAATATCTTCGTGGAGA  
ATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTTCTCAGTAGCGGCATCATGG  
CCAGTAGTGTCTTTGAGGAGTTCACCACTTAGATTACTGAGTAATTGTGGTTCCACATTTGAAAACAACCTCCTT  
TTATAATTATTCAGTCTTTTTGTGAGTGAATAGACATCTGCCTCCTGAAGTAGCTTCATCACAGAGTGTGAT  
GAAGACAGACAGTCAGGCTGAAATGGACAGTTCTTTGTGGACTCTACCCTTCCCTTCAAGGAGTATGTCATATAT  
CACAAAAGAAATTGCCCTTACACTGGTTCATGTTGTCAGTTACTGTTGTACATTGCATAGATGTACACACGAATTT  
AAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGTCTGAGTGACACTTTTCACC  
CTTGTACAGCCAAAATAATGTATATATGGAAGTGACAGACAAATCTCTAATCTCTTTGGTACCTATAACTTAT  
TAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTTCCAACTTCTACATGTAGAAGTATCATAAATGTGCTACA  
CATTTATGTTTGTGGATTAAATTAAAGTATTTAATATGGTTTTTCAGTGCTAAAATTGGAGTCAGATACTTCTTG  
GTTTTAAGCTGTCTACCTAATTGCTGTCTCCAGCAGACTGGTGCCATGCCAGTGGCTTTGGGGGCAAGGATAG  
AAATGCCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGATAATTGGAAACTCCTTTCA  
GGTTTTTGCAAGTAGATTTGTAAATGTTTGTGTATGCAGCCTTGCTGTTGAGTCAGTCCAAGGGGTTTTACTTAG  
GACAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCACATTTTCATACCTAGCTGTTTCTACCTCATTGGG  
TAAGTCATTTACCCTCTGTGCCTCAGTTTACTCTGTAGTTTACCATTAGACTGTGAGCTCCTTGAGGGACTTTG  
TCATAATCACTGTTACATCCCAGTGCCTCACACCATGCCTGGCCCTTAAGAAGTGCTCAATAAATGTCTGAACAA  
ATAA

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**FIGURE 662**

CTCTGTAGCTGTGACCCTGATACCGCGTGGTGTGCTCCGAACACATGGTGCCCAAGCAAGGCGGCGTCCAGAA  
GCCCTAGGTCCCAGAGGTCCGCTCAGCGGCAGGCGCATAAGGCGGGGCCGCGCGGGCCTTTCTTCCATCGGAA  
CCGTTCTCCCGGGGCTGAGTCCCTGCCCCGACTCCGAACGCCGAAGACCAGGGGCCGGAAGCGCGCGGCCACT  
GCCACGCCGTGTGTCAGTCGGGAGGGAGCGAGCAGGCGAAGCCGCGGAGGACGGGGTGAAGATGGCGGCCCTTC  
TCCGAGATGGGTGTAATGCCTGAGATTGCACAAGCTGTGGAAGAGATGGATTGGCTCCTCCCACTGATATCCAG  
GCTGAATCTATCCATTGATCTTAGGAGGAGGTGATGTACTTATGGCTGCAGAAACAGGAAGTGGCAAACTGGT  
GCTTTTAGTATTCCAGTTATCCAGATAGTTTATGAAACTCTGAAAGACCAACAGGAAGCAAAAAAGGAAAAACA  
ACAATTAAACTGGTGCTTCAGTGCTGAACAAATGGCAGATGAACCATATGACAGAGGATCTGCTTTTGCAATT  
GGGTCAGATGGTCTTTGTTGTCAAAGCAGAGAAGTAAAGGAATGGCATGGGTGTAGAGCTACTAAAGGATTAATG  
AAAGGGAACACTACTATGAAGTATCCTGTCTATGACCAAGGGTTATGCAGGGTCGGGTGGTCTACCATGCAGGCC  
TCTTTGGACCTAGGTACTGACAAGTTTGGATTGGCTTTGGTGGAAACAGGAAAGAAATCCCATAAACAACTTT  
GATAATTATGGAGAGGAATTCATATGCATGATACCATTTGGATGTTACCTGGATATAGATAAGGGACATGTCAAG  
TTCTCCAAAAATGGAAAAGATCTTGGTCTGGCATTGAAATACCACCACATATGAAAAACCAAGCCCTCTTTCTT  
GCCTGTGTTTTGAAGAATGCTGAAGTGAATTTAACTTCGGTGAAGAGGAATTTAAGTTCCACCAAAAGATGGC  
TTTGTGGCTCTTTCCAAGGCACCGGATGGTTACATTGTCTCAAATCACAGCACTCAGGTAATGCACAGGTGACACAA  
ACAAAGTTTCTCCCAATGCTCCGAAAGCTCTCATTGTGTAACCTTCCCGGGAGTTAGCTGAACAACTTTGAAC  
AACATCAAGCAGTTTAAGAAATACATTGATAATCCTAAATTAAGGGAGCTTCTGATAATTGGAGGTGTTGCAGCC  
CGGGATCAGCTCTCTGTTTTGGAAAATGGAGTAGATATAGTTGTAGGTACTCCGGGAAGACTAGATGACTTGGTG  
TCAACTGGAAGAGCTGAAGTTATCTCAAGTTAGATTCTGGTCTGGATGAAGCTGATGGGCTTCTTTCTCAAGGT  
TATTCTGATTTTATAAATAGGATGCACAATCAGATTCTCAGGTTACCTCTGATGGAAAAAGACTTCAGGTGATT  
GTTTGCTCTGCCACTTTGCATTCTTTCGATGTAAAGAACTGTCCGAGAAGATAATGCATTTTCTACATGGGTT  
GACTTAAAAGGAGAAGACTCTGTTCCAGATACTGTACACCATGTTGTTGTCCAGTAAATCCCAAACTGACAGA  
CTCTGGGAAAGGCTTGGAAAGAGCCACATTAGAAGTATGATGTACATGCAAAAGATAACACAAGACCTGGTGCT  
AATAGTCCAGAGATGTGGTCTGAAGCTATTAAATCCTGAAAGGGGAGTATGCTGTCCGGGCAATCAAGGAACAT  
AAGATGGATCAAGCAATTATCTTCTGTAGAACCAAAATTGACTGTGATAACTTGGAGCAGTACTTTATACAACAA  
GGAGGAGGACCTGATAAAAAAGGACACCAGTTCTCATGTGTTTGTCTTCATGGTGACAGAAAGCCTCATGAGAGA  
AAGCAAACTTGGAAAGATTTAAGAAAGGAGATGTAAGATTCTTGATTGACAGATGTAGCTGCTAGAGGAATT  
GATATCCACGGTGTTCCTTATGTTATAAATGTCACCTGCCCCGATGAAAAGCAAACTACGTACATCGAATTGGC  
AGAGTAGGAAGAGCTGAAAGGATGGGTCTGGCAATTTCCCTGGTGGCAACAGAAAAAGAAAGGTTTGGTACCAT  
GTATGTAGCAGCCGTGGAAAAGGGTGTATAACACAAGACTCAAGGAAGATGGAGGCTGTACCATATGGTACAAC  
GAGATGCAGTTACTATCTGAGATAGAAGAACACCTGAACTGTACCATTCTCAGGTTGAGCCGGATATAAAGGTA  
CCAGTGGATGAATTTGATGGGAAAGTTACCTACGGTCAGAAAAGGGCTGCTGGTGGTGAAGCTATAAAGGCCAT  
GTGGATATTTTGGCACCTACTGTTCAAGAGTTGGCTGCCCTTGAAGAGGAGGCGCAGACATCTTCTGCATCTT  
GGCTACCTTCTTAACAGCTGTTTCAAGACCTTCTGATTTTACATTTACTGAATAAGATTTGAGTAATGAAAGTC  
TGAGTCTTAAACTCTAAACAGTTGTACTGCTTCCAAGCAGCAGTATTTATAGTAACGTAAGCTATTAATGCT  
AACTCTTGATGTCAAGAAACATTAGTCTTAGGAATTCTTCAAAAAATGGCATCCCAATGAAAATAAATTTGATG  
ACTATA

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**FIGURE 663**

MAAFSEMGVMPEIAQAVEEMDWLLPTDIAESIPLILGGGDVLMMAETGSGKTGAFSIPVIQIVYETLKDQQEGK  
KGKTTIKTGASVLNKWQMNPHYDRGSAFAIGSDGLCCQSREVKWHGCRATKGLMKGKHYYEVSCHDQGLCRVGWS  
TMQASLDLGTDKFEGFGGTGKKSHNKQFDNYGEEFTMHDTIGCYLDIDKGHVKFSKNGKDLGLAFEIPPHMKNQ  
ALFPACVLKNAELKFNFGEEEFKFPKDG FVALSKAPDGYIVKSQHSGNAQVTQTKFLPNAPKALIVEPSRELAE  
QTLNNIKQFKKYIDNPKLRELLIIGGVAARDQLSVLENGVDIVVGTPGRLLDLVSTGKLNLSQVRFLVLDEADGL  
LSQGYSDFINRMHNQIPQVTS DGKRLQVIVCSATLHSFDVKKLSEKIMHFPTWVDLKGEDSVPD TVHHVVVPVNP  
KTDRLWERLGKSHIRTDDVHAKDNTRPGANSPBMWSEAIKILKGEYAVRAIKEHKMDQAIIFCRTKIDCDNLEQY  
FIQGGGPDKKGHQFSCVCLHGDRKPKHERKQNLERFKKG DVRF LIC TDVAARGIDIHGVPYVINVTLPDEKQNYV  
HRIGRVGRAERMGLAISLVATEKEKVWYHVCSSRGKGCYNTRLKEDGGCTIWYNEMQLLSEIEEHLNCTISQVEP  
DIKVPVDEFDGKVTYQGKRAAGGGSYKGHVDILAPT VQELAALEKEAQT SFLHLGYLPNQLFRTF

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**FIGURE 664A**

GAACATGGCGGCCCCCGAGTCAGGGCCGGCTTTGAGTCCAGGCACTGCAGAGGCCCTAGAGGCAACCAAAAAACATG  
GTGCATCCTTTATCATCACGAAAGCAATTCGAGATCGTTTATTATTTTTACGCCAATACATCTGGTACAGCCCCG  
CACCTTTTTTGCTCCCTGATGGACTGGTTCGCTTGGTTAATAAACAGATAAACTGGCATTGTGACTTGAAGCA  
ATAGCACTAGAGTGCATCTATACCTGTGAACGAAATGATCAACTCTGTCTTTGCTATGACCTACTAGAATGTCTG  
CCAGAAAGAGGATATGGTGATAAGACAGAGGCAACCACAAAGCTTCATGACATGGTAGACCAACTGGAACAAATT  
CTCAGTGTGTGACAGCTTTTGGAAAAACATGGACTCGAGAAACCAATTTCAATTTGTTAAAAACACTCAATCTAGC  
TCAGAAGAGGCACGCAAGCTGATGGTTAGATTGACGAGGCACACTGGCCGGAAGCAGCCTCCTGTGCTGAGTCT  
CATTGGAGAACGTTGCTGCAAGACATGTTAACTATGCAGCAGAATGTATACACATGCTAGATTCTGATGCCTGC  
TATGAGATATTTACAGAAAGCCTTCTGTGCTCTAGTCGCCTTGAAAACATCCACCTGGCTGGACAGATGATGCAC  
TGCAGTGCCTGTTTCAGAAAATCCTCCAGCTGGTATAGCCCATAAAGGGAAACCCCACTACAGGGTCACTACGAA  
AAGAGTATTGACTTGGTTTTGGCTGCCAGCAGAGAGTACTTCAATTCCTTCTACCAACCTCACTGATAGCTGCATG  
GATCTAGCCAGGTGCTGCTTACAACGTGATAACAGACAGACCCCTGCCATTCAAGAGGAGCTAGATCTTATCCAA  
GCCGTTGGATGTCTTGAAGAAATTTGGGGTAAAGATCCTGCCTTTGCAAGTGCATTGTGCCCTGATCGGATCAGT  
CTCATCAAGGAGTGTATTTCCAGTCCCCACATGCTATAAACAATCCACCAAGCTTCTGGGCCTTGCTGAGCTG  
CTGAGGGTTGCAGGTGAGAACCAGAAAGAGCGGGGACAGGTTCTAATCCTTTTAGTGGAGCAGGCACTTCGC  
TTCCATGACTACAAAGCAGCCAGTATGCATTGTGAGGAGCTGATGGCCACAGGTTATCCTAAAAGTTGGGATGTT  
TGTAGCCAGTTAGGACAATCAGAAGGTTACCAGGACTTGGCCACTCGTCAAGAGCTCATGGCTTTTGCTTTGACA  
CATTGCCCTCCTAGCAGCATTGAACCTCTTTTGGCAGCTAGCAGCTCTCTGCAGACAGAAATCTTTATCAAAGA  
GTGAATTTCCAGATCCATCATGAAGGAGGGGAAAATATCAGTGCTTACCATTAACTAGTAAAGCAGTACAAGAG  
GATGAAGTAGGTGTTCCAGGTAGCAATTCAGCTGACCTATTGCGCTGGACCACTGCTACCACCATGAAAGTCCCT  
TCCAACACCACAACCACCACCAAGCGGTGCTGCAGGCCGTGCTGATGGCAGTGGTGAAGAAGTCTTTAACT  
TACCTTCGACCCCTTCAGGGGCAAAAATGTGGTGGTGCATATCAAATCGGAACCTACAGCCAATGAAGATCTAGAG  
AAACAAGGGTGTCACTCTTTTATGAATCTGTCATCTCAAATCCTTTTGCTGCTGAGTCTGAAGGGACCTATGAC  
ACCTATCAGCATGTTCCAGTGGAAGCTTTGCAGAAGTATTGCTGAGAAGTGGAAAATGGCAGAGGCTAAAAAT  
AAAGGAGAAGTATTTCCAACAACTGAAGTTCTCTGCAACTAGCAAGTGAAGCCTTGCCAAATGACATGACCTTG  
GCTCTTGCTTACCTTCTTGCTTACCACAAGTGTAGATGCTAACCAGTCTTTGAAAAGCAGTCCCCCTCTGCA  
TTATCTCTCAGCTGGCAGCGTATTACTATAGCCTCCAGATCTATGCCCGATTGGCCCCATGTTTCAGGGACAAG  
TGCCATCCTCTTTACAGGGCTGATCCCAAAGAATAATCAAGATGGTCACCAGGCATGTGACTCGACATGAGCAC  
GAAGCCTGGCCTGAAGACCTTATTTCACTGACCAAGCAGTTACACTGCTACAATGAACGTCTCCTGGATTTCCT  
CAGGCGCAGATCCTTCAGGGCTTCGGAAGGGTGTGGACGTGCAGCGGTTTACTGCAGATGACCAGTATAAAGG  
GAAACTATCCTTGGTCTGGCAGAACTCTAGAGGAAAGCGTCTACAGCATTGCTATTTCTCTGGCACACGTTAC  
AGTGTCTCCCGCTGGGAAGTTTTTATGACCCATTGGAGTTCTCTTACGGACAGTGGTTTGTCCACACTAGAA  
ATTGAAAATAGAGCCCAAGACCTTCATCTCTTTGAGACTTTGAAGACTGATCCAGAAGCCTTTTACCAGCACATG  
GTCAAGTATATTTACCCTACTATTGGTGGCTTTGATCACGAAAGGCTGCAGTATTATTTCACTCTTCTGGAAGAAC  
TGTGGCTGTGCAGATTTGGGGAACTGTGCCATTAAACAGAAACCCACATTGCACTGCTGAAGAAGTTTAAGGTT  
GTTGCATCAGGTCTTAATTACAAAAAGCTGACAGATGAAAACATGAGTCTCTTGAAGCATTGGAGCCAGTTCTT  
TCAAGTCAAAAATATCTTGTCTATTTCCAACTTGTTCCTTCCAAAATCCCTGAAAAGGATGGACAGATGCTTTCCCA  
AGCTCTCTGTACACCATCTGGTTACAGAAGTTGTTCTGGACTGGAGACCCTCATCTCATTAAACAAGTCCCAGGC  
TCTTACCAGGAGTGGCTTCATGCCTATGATGTCTGCATGAAGTACTTTGATCGTCTCCACCCAGGTGACCTCATC  
ACTGTGGTAGATGCAGTTACATTTTCTCCAAAAGCTGTGACCAAGCTGTCTGTGGAAGCCCGTAAAGAGATGACT  
AGAAAGGCTATTAAGACAGTCAAAACATTTTATTGAGAAGCCAAGGAAAAGAACTCAGAAGACGAAGCTCAAGAA  
GCTAAGGATTCTAAAGTTACCTATGCAGATACCTTGAATCATCTGGAGAAATCACTTGCCACCTGGAAACCTG  
AGCCACAGCTTCATCCTTTCTCTGAAGAATAGTGAGCAGGAAACACTGCAAAAATACAGTCACCTCTATGATCTG  
TCCCGATCAGAAAAAGAGAACTTCATGATGAAGCTGTGGCTATTGTGTTAGATGGTCAGCCTCTAGCAATGATT  
CAGCAGCTGCTAGAGGTGGCAGTTGGCCCTCTTGACATCTACCCAAAGGATATAGTGCAGAGTGAATCATGAAA  
ATAATTTCTGCATTGAGTGGTGGCAGTGTGACCTTGGTGGGCCAAGGGACCCACTGAAGGTCTGGAAGGTGTT  
GTTGCAGCAGTCCACGCCAGTGTGGACAAGGGTGAGGAGCTGTTTACCTGAGGACCTGCTGGAGTGGCTGCGG  
CCTTTCTGTGCTGATGACGCTGGCCGGTGGCGCCCGCATTCACGTGCTGCAGATTTGGGGCAATCATTTTAC

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**FIGURE 664B**

CTGACTGAGGAGGACAGCAAGCTCCTCGTGTTCTTTAGAACTGAAGCCATTCTCAAAGCCTCCTGGCCCCAGAGA  
CAGGTAGACATAGCTGACATTGAGAATGAAGAGAACCGCTACTGTCTATTTCATGGAACTCCTGGAACTCTAGTCAC  
CACGAGGCTGAATTTACGCACTTGGTTTTACTTTTGCAAGCTTGGCCACCTATGAAAAGTGAATATGTCATAACC  
AATAATCCATGGGTGAGACTAGCTACAGTGATGCTAACCAGATGTACGATGGAGAACAAGGAAGGATTGGGGAAT  
GAAGTTTTGAAAATGTGTCGCTCTTTGTATAACACCAAGCAGATGCTGCCTGCAGAGGGTGTGAAGGAGCTGTGT  
CTGCTGCTGCTTAACCAGTCCCTCCTGCTTCCATCTCTGAAACTTCTCCTCGAGAGCCGAGATGAGCATCTGCAC  
GAGATGGCACTGGAGCAAATCACGGCAGTCACTACGGTGAATGATTCCAATTGTGACCAAGAACTTCTTTCCCTG  
CTCCTGGATGCCAAGCTGCTGGTGAAGTGTGTCTCCACTCCCTTCTATCCACGTATTGTTGACCACCTCTTGGCT  
AGCCTCCAGCAAGGGCGCTGGGATGCAGAGGAGCTGGGCAGACACCTGCGGGAGGCCGCCATGAAGCCGAAGCC  
GGGTCTCTCCTTCTGGCCGTGAGGGGACTCACCAGGCCTTCAGAACCTTCAGTACAGCCCTCCGCGCAGCACAG  
CACTGGGTGTGAGGGCCACCTGTGGCCCTGCTCCTTAGCAGAAAAAGCATCTGGAGTTGAATGCTGTTCCAGAA  
GCAACATGTGTATCTGCCGATTGTTCTCCATGGTTCCAACAAATTGCAAATAAACTGTATGGAACG



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**FIGURE 665**

ATGAGATCTCGGCTGCGAAGTGTGTCATCAGCATCTGGCTTTCTGGGTTATGATGTGGTCAGGGATGTGTCTTCT  
GGCCCATTTTGGAGGCGCAAAATGGTGATCCATGTTTGGATTTATGTGGAAGGGACAGTTCCACAGTATGGAAA  
AGGGGAGACAGTCCCAGGAAGCGTGAAGAGGAAAGGTCATTGGGAATCTCTCAGTACCTCTGCCCTAATCTCTTC  
TCTCCTACGGAGGCAGTTAAGTCTAAAGCCATTTGCTGGTTTCCATATCTGAACTTCAAGCAGCATCTTCTGGA  
CTTAGTTCTTGGTGGCTGGAGCAGGGAAAGTGTGGCCTCATTGAAATGGGATCAGGTTTCAGGATGTTTCATGTG  
TCTGTGTCTTTCTCACACATTGTGAGGAACAGGACAGTCCCTCTGATGCGCTGGTACCTGGCCGCCATGCAGATC  
ATGAGGGGAGAGAAGCAGGCTGCTTCGGGGAATCCTGCCATAGAGGCTGGAGCTTCATGTGCATCTCAGCCAGCC  
CTGCAGCAGCCCTCAGCAGCCCTTCTGTGGGGCTGGGGTATCTGTTGCCCAGGAAATCACTGGGCTGAGGAAGTA  
GGAGATGAATGGCTCTGTGCTATCACACCATCTTCTGCATTGAGTCTTCTTCGCTTTCTTATCATCGTCATCATG  
ATTATCATCAATAAATTTGTAAGGAAGGAAACAGGACTGCTTATTGATTTTCATTTCTATGCTACTGAGAGCCAA  
GGCTACGGATTCTTTCCCCAGGAATGGAGAGAGGAAAGAGATGTGAGATTGGCTACCCAACTGTTGCATCAGTA  
CCCCATTCTATCATCAACGGGTACAAACGAGTCCTGGCCTTGTCTGTGGAGACGGATTACACCTTCCCACTCGCT  
GAAAAGGTCAAGGCCTTCTTGGCTGATCCATCTGCCTTTGAGATGGAGGAGTGGAGGGGTGATGATAAAATGGAA  
GCTCCCGTGTCAAGAGATCAGGCAAATGGGGAGACTCCGTGGGATCCTCTGAAGAATCTACATGCACGTACTTAC  
GAGAATCAGATTAGGGATGCCTACCACACAGGAGTACCAATGTTTAGTATTAGCCCGTAA

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**FIGURE 666**

MRSRLRSVSSASGFLGYDVVRDVSSGPFWRRKNGDPCLDLCGRDSSTVWKRGDSPRKREEERSLGISQYLCPNLF  
SPTEAVKSKAICLVSISELQAASSGLSSWWLEQGKCGLIEMGSGFRMFHVSVSFSHIVRNRTVPLMRWYLAAMQI  
MRGEKQAASGNPAIEAGWERTGAQM

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**FIGURE 667**

CGCGAAGAAGCTGGCAGGGGCACGAGCCGGGGCGGGTTTGAAGACGCGTCGTTGGGTTTTGGAGGCCGTGAAAC  
AGCCGTTTGAGTTTGGCTGCGGGTGGAGAACGTTTGTACAGGGCCCGGCCAAGAAGGAGGCCCGCTGTTACGAT  
GGTGTCCATGAGTTTCAAGCGGAACCGCAGTGACCGGTTCTACAGCACCCGGTGCTGCGGCTGTTGCCATGTCCG  
CACCGGGACGATCATCCTGGGGACCTGGTACATGGTAGTAAACCTATTGATGGCAATTTTGCTGACTGTGGAAGT  
GACTCATCCAACTCCATGCCAGCTGTCAACATTCAGTATGAAGTCATCGGTAATTACTATTCGTCTGAGAGAAT  
GGCTGATAATGCCTGTGTTCTTTTGGCGTCTCTGTTCTTATGTTTATAATCAGTTCAATGCTGGTTTATGGAGC  
AATTTCTTATCAAGTGGGTTGGCTGATTCCATTCTTCTGTTACCGACTTTTTGACTTCGTCTCAGTTGCCTGGT  
TGCTATTAGTTCTCTCACCTATTTGCCAAGAATCAAAGAATATCTGGATCAACTACCTGATTTTCCCTACAAAGA  
TGACCTCCTGGCCTTGGACTCCAGCTGCCTCCTGTTCAATTGTTCTTGTGTTCTTTGCCTTATTCATCATTTTAA  
GGCTTATCTAATTAACGTGTGTTTGGAACTGCTATAAATACATCAACAACCGAAACGTGCCGGAGATTGCTGTGTA  
CCCTGCCCTTTGAAGCACCTCCTCAGTACGTTTGGCAACCTATGAAATGGCCGTGAAAATGCCTGAAAAAGAACC  
ACCACCTCCTTACTTACCTGCCTGAAGAAATTGTCCTTTGACAATAAATCCTATACCAGCTTTTTGTGTTTA  
TGTTACAGAATGCTGCAATTCAGGGCTCTTCAAACCTTGTTTATATAAAATATGTTGCTTTTTGTTAAGCATT  
ATTTTCAAACACTAAGGAGCTTTTTGACATCTGTTAAACGCTTTTTGTTTTTTTTGTTAAGTCTTTTACATTTTA  
ATAGTTTTTGAAGACAATCTAGGTTAAGCAAGAGCAAAGTGCCATTGTTTGCCTTTAATTGGGGGTGGGAAGGG  
AAAGAGGGTACTTGCCACATAGTTTCCTTTTTAACTGCACCTTCTTTATATAATCGTTTGCATTTTGTACTTGC  
TACCTTGAGTACTTTTCAAGGAAGACTGACTTAAATATTGCGGGTGAGTAAGTAGTTGGGTATAAGATCTGAACCTT  
TCATCTGCAGAGGCAAGAAAAATATTTGACATTGTGACTTGACTGTGGAAGATGATGGTTGCATGTTTCTAGTTT  
GTATATGTTTCCATCTTTGTGATAAGATGATTTAATAAATCTCTTTAAATACTT

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**FIGURE 668**

MVSMFKNRSDRFYSTRCCGCHVRTGTIIILGTWYMVVNLLMAILLTVEVTHPNSMPAVNIQYEVIGNYYSSER  
MADNACVLFAVSVMFIISSMLVYGAIISYQVGWLIPFFCYRLDFVLSCLVAISSLTYPRIKEYLDQLPDFPYK  
D DLLALDSSCLLFIVLVFFALFIIFKAYLINCWNCYKYINNRRNVPEIAVYPAFEAPPQYVLPTYEMAVKMPKE  
PPPPYLPA

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**FIGURE 669**

GCGGCTTGCGGGGACCACAGCTCCCGAAAGCGACGTTCCGGCCACCGGAGGAGCGGGAGCCAAGCAGGCGGAGCTC  
GGCGGGAGAGGTGCGGGCCGAATCCGAGCCGAGCGGAGAGGAATCCGGCAGTAGAGAGCGGACTCCAGCCGGCGG  
ACCCTGCAGCCCTCGCCTGGGACAGCGGCGCGCTGGGCAGGCGCCCAAGAGAGCATCGAGCAGCGGAACCCGCGA  
AGCCGGCCCCGAGCCGCGACCCGCGCAGCCTGCCGCTCTCCCGCCGCCGGTCCGGGCAGCATGAGGCGCGCGGCG  
CTCTGGCTCTGGCTGTGCGCGCTGGCGCTGAGCCTGCAGCCGGCCCTGCCGCAAATTGTGGCTACTAATTTGCCC  
CCTGAAGATCAAGATGGCTCTGGGGATGACTCTGACAACTTCTCCGGCTCAGGTGCAGGTGCTTTGCAAGATATC  
ACCTTGTCACAGCAGACCCCTCCACTTGGAAGGACACGCAGCTCCTGACGGCTATTCCCACGTCTCCAGAACCC  
ACCGGCTTGAGGGCTACAGCTGCCCTCCACCTCCACCTGCCGGCTGGAGAGGGGGCCCAAGGAGGGAGAGGCTGTA  
GTCCTGCCAGAAGTGGAGCCTGGCCTCACCGCCCGGGAGCAGGAGGCCACCCCGACCCAGGGAGACAGCATCA  
GGGTTAAGAAGACTTTTTTTTTTTTTTTTAACTAGGAGAACCAAATCTGGAAGCCAAAATGTAGGCTTAGTTT  
GTGTGTTGTCTCTTGAGTTTGTGCTCATGTGTGCAACAGGGTATGGACTATCTGTCTGGTGGCCCCGTTTCTGG  
TGCTCTGTTGGCAGGCTGGCCAGTCCAGGCTGCCGTGGGGCCGCCGCTCTTTCAAGCAAGGCCAGAGGCCCCCA  
GCCCAGGGCTCCTGCACTTACTTGCTTATTTGACAACGTTTCAGCGACTCCGTTGGCCACTCCGAGAGGTGGGCC  
AGTCTGTGGATCAGAGATGCACCACCAAGCCAAGGGAACCTGTGTCCGGTATTCGATACTGCGACTTTCTGCCGTG  
GAGTGTATGACTGCACATGACTCGGGGGTGGGGAAAGGGGTCCGGCTGACCATGCTCATCTGCTGGTCCGTGGGAC  
GGTGCCCAAGCCAGAGGCTGGGTTTCAATTTGTGTAACGACAATAAACGGTACTTGTCATTTTCGGGC

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**FIGURE 670**

ACTGCGCGCCCCGCGCGGAGTCCCCGCGCGCGTCATCAGTCCCCGGCGGTGCTCGTCACCTCCAGGCGACTTCA  
GAATGCCACACTGGCCTCGACCTGACTGTGCCCCAGCACCAGGAGGTACGGGGCAAGATGATGTCTGGACACGT  
GGAGTACCAGATCCTGGTGGTGACCCGTCTGGCTGCGTTCAAGTCGGCCAAGCACAGGCCCCAGGATGTCGTCCA  
GTTCTTGGTCTCCAAAAAGTACAGCGAGATTGAGGAGTTTTACCAGAACTGAGCAGTCGTTATGCAGCAGCCAG  
CCTCCCCCACTACCCAGGAAGGTCTGTTTGTGGGGAGTCTGACATCCGGGAGAGGAGAGCCGTGTTCAATGA  
GATCCTGCGCTGTGTCTCCAAGGATGCCGAGTTGGCAGGCAGCCAGAGCTGCTAGAGTTCTTAGGTACCAGATC  
CCCAGGGGCTGCAGGGCTCACCAGCAGAGATTCTCTGTCTGGATGGCACAGACAGTCAGACAGGGAATGATGA  
AGAGGCTTTGACTTTTTTGAGGAGCAAGACCAAGTGGCAGAAGAGGGTCCGCGCTCCAGAGCCTGAAGGGCGA  
GGATGCTGAGGAATCCTTGGAGGAGGAGGAGGCGCTGGACCTCTGGGCATTATGCGCTCCAAGAAGCCCAAGAA  
ACATCGGTGTGAAGGGAAGGGACTGGGCCCTGCAGGGTCAGAACCTCCCCACCCCAAGGGGAGGCCAGGCAGAAG  
CCTGGGTACACAGACCCAGAACTGCATGGTTCCATTTCTCCGGGGCTGTGGGGCCAAAGTAGAAGCCTGCGGGC  
TGCGGGAGCGGCTCTACCCTAGGAGCCAGAGCCCAATGTGTCTTATTCCCCGTGGACATGAAGGGGAGGGAGGG  
TGTGGGGATGCCTTGCCAACCAGAAGCCAGCCCCAAGGATGAAGCAAGACATGTGGGGCCGTAGCGAGGTGTCA  
CATGGGGCAGGGAAGCTTCATGCCACGGGTCTGCCAGCCCCAGCACAGACCCAAACTGGGGCTGGGCCTCTAT  
CCCTCCTCTGCCCTGTGTCGCATAGTAAGAAGGAGTGACCGGTATCCTCCCTTCCCCTACCCCTAAGCTGTAGCC  
TGGGTGACTGACTGGCCTGGGCCTGGGGTGGGGACGTCCCCAAGCCAAATTACTCCAGGGCCTCTGCTCCTCGTG  
GCTGCCAGGGGCTGCAGGGTCTGGGTGGGTCTCCAGGAGAGGAATACTGAGTGGGAGATCGGCTGTCTGGAGT  
GTTCTGATGCAAGTCTCTCTCCTGAGCCTCCTCTGATGCAAGCTCTAAAGGGAGAAGTCAGGCCCTGCCTCT  
CCAGGGTATAGACGGCCCTGCTAGGCCCCAGTTCTTCTCCTTCCCCCTTTCCCAGGAAAGGCCAGCCCAGTCCA  
TGGCCTTCTTGGGCCTCTGGGCACAGAGCCAATGTTCTGTCATTGCAGCTCTCAGCAAACCTGGGTCATAGCTTCC  
CCACAGCTCAGCCTGGGGCCTGGGCAGGGCTCCCAGCCTGCACCGCCTCCCACTGCCAGTGGGGCATGATTCTCT  
CAGGCTTCTGCCCCGAGGCCTTCGTCTCTCAGGGTCTGGACTTGGTCAGTGGCCTTTTACCAGTGGAGCTGCC  
TTCCCAGGGAGAAGGAGCCGTGCGCCAGGGCAGGGCCGTGCCTTAGACTTCTCCCGACCCCAAGAGCGCTGGTA  
CACAGGTCTAGGCACCACACAGTGCTTTGGAAATTCTCAGTGAATGATGTTTAATAAAGCAAAAAATGTC

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**FIGURE 671**

MQSPAVLVTSRRLQNAHTGLDLTVPQHQEVRGKMMSGHVEYQILVVTRLAAFKSAKHPEDVVQFLVSKKYSEIE  
EFYQKLSSRYAAASLPPLPRKVLFGESDIRERRAVFNEILRCVSKDAELAGSPELLEFLGTRSPGAAGLTSRDS  
SVLDGTDSTGNDEEAFDFFEEQDQVAEEGPPVQSLKGEDAEESLEEEELDPLGIMRSKKPKKHRCEGKGLGPA  
GSEPPHPQGRPGRS LGHSTQNCMPFSPGLWGQSRSLRAAGAALT LGARAQCVLFPVDMKGREGVGMP CQPEAQF  
QG

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**FIGURE 672**

ATGGGTCAAAGTCAGAGTGGTGGTCATGGTCCTGGAAGTGGCAAGAAGGATGACAAGGACAAAAAAGAAATAT  
GAACCTTCTGTACCAACTAGAGTGAGGAAAAAGAAGAAAACAAAGGGACCAGATGCAGTCAGCAAACCTGCCA  
CTGGTGACACCTCACACTCAGTGCCGGTTAAAATTACTGACATTAGAGAGAATTAAAGACTATCTTCTCATGGAG  
GAAGAATTCATTAGAAATCAGGAACAGATGAAACCATTAGAAGAAAAGCAAAGGAGGAAAGATCAAAGTGGAT  
GATCTGAGGGGGACCCCGATACAAGGATCTTCTGGAACTGGCTGCTCGGTCCTGCTCAACCACAAGGTGCATGC  
CGTGATGGGGTGCTGATGGATGACACGGATCCCTGGTCACAGTGATGAAGATGGAAAAGACCCCCAGGAGACC  
TATGCCAATATTGGGGGGCTGGACAACCAAATTCAGGAAATAAAGGAAGCTGTGGAGTTTCTCTCACCCATCCT  
GAATATTATGAAGAGATGGGTAAAAAGCCTCCTAAGGGGGTCAATCTCTATGGTCCACCTGGCACAGGCAAAACC  
TTGTTATCCAAAGCAGTAGCAAACCAAACCTCAGCCACTTTCTTGAGAGTGGTTGGCTCTGAACCTTATTCAGAAG  
TACCTAGTTGCTGAAGAGCATGAACTATCCATCATGTTTACTGATGAAATTGGAGCCATTGGGACAAAAAGATAT  
GACTCAAATTCGGTGGCCGCATTGACAGGAAGATCAAGTTCTCCCTGCCTGATGAAAGGACTAAGAAGCGTATC  
TTTCAGAATCACACAAGCAGGATGACACTGGCCGATGAAGTAACCCTGGACGACTTGATCATGGTTAAAGATGAC  
CTCTCTGGTGCTGACATCAAGGCAATCTGTACAGAAGCTGGTCTGATGGCCTCAAGAGAACGTAGAATGAAAGTA  
ACGAATGAATTCTTCAAAAAATATAAAGAAATGTTCTTTATAAGAAACAGGAAGGCACCCCTGAGGGGCTCTATC  
TCTAGTGAACCACAGCTGCCATCAGGAAAATGGTTGGGCGATTCCCTCGACCCCTGAAAAGGATGAGCAACTTGT  
CCCAAAGCTGGAGAAGACACTCCTGAGGGCTATTTAGGACAACCTTATGACTCAGCTCTTTGAGCAGAAAGAGGCC  
AAAAAGTTCAGCAGAAAAAGCCCTGAACCTTTGGAAGAGCTGGCTTCAAGCCTGGCTTAG



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**FIGURE 673**

MGQSQSGGHGPGSGKKDDKDKKKKYEPSVPTRVRKKKKKTKGPDVSKLPLVTPHTQCRLKLLTLERIKDYLLME  
EEFIRNQEOMKPLEEKQKEERSKVDDLRGTPIQGSSGNWLLGPAQPQGACRDGVLMDDDTDLVTVMKMEKTPQET  
YANIGGLDNQIQEIKEAVEFPLTHPEYYEEMGKKPPKGVILYGPPTGKTLLSKAVANQTSATFLRVVGSELIQK  
YLVAEEHEL SIMFTDEIGAIGTKRYDSNSGGRIDRKIKFSLPDERTKKRIFQNHTSRMTLADEVTLDDLIMVKDD  
LSGADIKAICTEAGLMASRERRMKVTNEFFKKYKEMFFIRNRKAPLRGSISSPEQLPSGKWLGDSSTPEKDEQLV  
PKAGEDTPEGYLQQLMTQLFEQKEAKKFSRKSPELLEELASSLA

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**FIGURE 674**

GACGGCGCCTTCGCGAAACACTATGCTAATGGCATGGTGCCGCGGTCTGTCTTGCTGTGCCTGCGGCAGGGGCT  
CGGAACCAATTTCATTCCTGCACGGCCTGGGGCAGGAGCCCTTCGAGGGAGCTCGGTCACTGTGTTGCAGGTCCTC  
GCCTAGAGACCTGCGAGATGGAGAAAGAGAGCACGAGGCGGCACAAAGGAAAGCCCCAGGAGCAGAGTCTTGCCC  
ATCTCTCCCTCTGAGCATCTCGGACATTGGGACTGGATGTCTTTTCGTCACTGGAAAACCTCAGACTGCCGACGCT  
GCGGGAAGAGTCATCACCTCGAGAGCTCGAGGACTCGAGCGGAGACCAGGGCCGGTGCGGTCCCACACACCAGGG  
ATCCGAGGATCCTTCGATGCTCTCGCAGGCCAGTCCGCTATCGAGGTCGAAGAGCGTCACGTCTCCCTTCTTG  
TTCAACTTCCAGAGAGAGACCCTTTCAGGCTGGGGAGCTGATTTTAGCTGAGACTGGGGAGGGAGAAACAAAATT  
TAAGAAATTATTTAGGTTGAACAACTTCGGACTCTTAAATAGTAACTGGGGGGCAGTCCCGTTCGGCAAGATCGT  
GGGGAAGTTCCCCGCCAGATACTGAGGAGTTCCTTCGGTAAGCAGTACATGCTGAGGAGGCCAGCCTTGAAGA  
CTATGTAGTATTGATGAAAAGAGGGACTGCCATAACATTCCCAAAGGATATTAATATGATTCTCTCAATGATGGA  
TATCAACCCAGGTGATACTGTTTTGGAAGCTGGCTCAGGCTCTGGTGAATGAGCTTATTTTTATCCAAAGCAGT  
TGGATCACAAGGACGAGTCATAAGTTTTGAGGTACGAAAAGACCACCATGATCTGGCTAAGAAGAATTACAAACA  
CTGGCGTGATTCATGGAAATTAAGTCATGTAGAAGAGTGGCCAGACAATGTGGATTTTATTCATAAGGACATTC  
AGGAGCAACCGAAGACATAAAATCTTTAACATTTGACGCAGTAGCTTTGGATATGTTAAATCCTCATGTACTTT  
GCCTGTTTTTTACCCACATCTTAAGCATGGTGGTGTATGTGCTGTATATGTAGTAAACATCACACAGGTTATTGA  
ACTTTTAGATGGAATTCGCACCTGTGAACCTGCTCTTTCATGTGAAAAGATAAGCGAGGTCATTGTGAGAGATTG  
GTTGGTTTGCCTTGCAAAACAGAAAAATGGAATTTTAGCTCAAAAAGTAGAATCTAAATCAACACAGATGTACA  
ACTAGATTCTCAAGAGAAAATTGGAGTTAAAGGTGAGCTGTTTCAAGAGGATGACCATGAAGAATCGCATTCTGA  
TTTTCCATATGGATCATTTCCTATGTTGCTAGACCAGTACACTGGCAACCTGGTCATACAGCTTTTTCTGTCAA  
GTTGAGGAAGGTCAAACCACAACCTTAAGTACTCCAGATGACAGTAACTGACTTGAAGATGGAAAAATATCA  
AAATAGAACTTTATATTGAAAATCACTGCTTCCATAGATTGGCATTTTTAGCTATTACTATGACTTATATACTT  
ATACATATAATTTTGAAAATAACAACATAAAGATGTATAACATAGCAAACTGCTTAAACATCCCATTTTGACAC  
TTGTCTTGACGTTAGTTTGACATTTTGTAGTTAATGATTCCAAATTGGTTTAGTTGGGCCATCTCATTCTTCACT  
TCCTGTAAACCACTCCATAGATTTGTCTTTCTTCAAGAAATTAGTTTTCTTCTTTATTTGATTGATGGTCATT  
GACTACTGAAATAAAATATGCATTTTAAGATAAAAAAAAAAAAAA

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**FIGURE 675**

MLMAWCRGPVLLCLRQGLGTNSFLHGLGQEPFEGARSLCCRSSPRDLRDGEREHEAAQRKAPGAESCPSLPLSIS  
DIGTGCLSSLENLRLPTLREESSPRELEDSSGDQGRCGPTHQGSSEDPMSLSQAQSAIEVEERHVSPSCSTSRERP  
FQAGELILAETGEGETKFKKLFRLNNFGLLNSNWGAVPFGKIVGKFPGQILRSSFGKQYMLRRPALEDYVVLMKR  
GTAITFPKDINMILSMMDINPGDTVLEAGSGSGGMSLFLSKAVGSQGRVISFEVRKDHHDLAKKNYKHWRDSWKL  
SHVEEWPDNVDFIHKDISGATEDIKSLTFDAVALDMLNPHVTLPVFYPHLKHGGVCAVYVVNIQVIELLDGIRT  
CELALSCEKISEVIVRDWLVLAKQKNGILAQKVESKINTDVQLDSQEKIGVKGELFQEDDHEESHSDFPYGSFP  
YVARPVHWQPGHTAFLVKLRKVKPQLN

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**FIGURE 676**

ATGCAACAAGCTTCCTACCCCCAACCCGGCCAGACAAAGCCCCGGCAGCAGGGCCGGCACTTCCGAGCCTCCGGA  
CTCGGGACGCCGCGCTCTTACCCTGGCCTCATCCAGAGTGACGCCGGCGCCACCGCTTCCCCGGCTTTGGCGGC  
GGGGCAGCTGGCGGCGCGGGTCTTGGAGGAGCGGGTCCGAGAGGAGATGAAATGGCTGCTGCCTCCGGTCGCCCC  
AGGCTCTGCTCCGGCCCCAGGCCCAGGCCCCGGGACCAGGAGACTTGGACCCGAGAAGGCGGAGAGAGCTCTTCCG  
GGTGTTCACCATGGTCCAGCCAGGGGGACGGAGTCCACGCCGCGCCCGGGAGAGCCGAGCAAGGCCGGCCCCGCCG  
GCCGCTGCCCCGCCCCCGGCGCGGCGTCAGCGCTCGGCGGCCGGGGAGCGACGCTCTAGGCTGTCAGCTCGGTGG  
TTTCCAGCTCTCCCCGACCGCAGGGCTGGGGCGACCAGAAAAGCCAGACTAATCAGGACGAGTTCGGGCGTGGA  
TTGGGCCTGAAGCCCTCATGCCCAGCCAGGCCTGAATGCCCCAGACCCACCGTCACCCCGTGGCCTGGATGGA  
GCAGGGGACGGCCGGCGAAGGCGCGGGTGAAGGGGAGCGGCGACGAAGGCGCGAGGAGCTGACTGGGAATCCC  
CAAGCTACCCGAGGCAAGACACTGAACTTGAGTCGCACTTTTCATGCCTGTAGAAATGAGAATGACAGCTGTGAT  
AAAAAAAAAATTCATCTGGGCGGTATCTGGAACCTGGGCGTTCCGAACTTACAGTTATGCGCAACACAATGTTT  
CTATTTTCAAAGGCGAACGCTGCACGATCGCAGTCCAGTGATACAAATAATAAAAGAGTTTATTACTTGTCTAGCA  
ATGATGAATGTTTCGTGTGGCATCCAGCGTTGAGTTCCTATTCTTACTTGGAACCTATTGGTCCCTGTGTCTGGGG  
CCAGCACTGATGGACACAATAAGTTTGCACTCGTCTTCCCTCTCATGTATCATACCTGGAATGGGATCCAACAC  
TTGATGTGGGACCTAGGAAAAGGCCTGAAGATTCCCCAGCTATACCAGTCTGGAGTGGTTGTCCTGGTTCTTACT  
GTGTTATTTGTAGGGCTGGCAGCTGTGTGA

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**FIGURE 677**

MQQASYPQPGQTKPRQQGRHFRASGLGTPRSYPGLIQSDAGATASPGFGGGAAGGAGLGGAGPRGDEMAAASGRP  
RLCSGPRPRPGTRRLGPEKAERALPGVHHGPARGTESTPRPGEPSKAGPPAAAPPPARRQSAAGERRSRLSARW  
FPALPDRRAGATRKARLIRTSSGVELGLKPSCPARPECPRPHRHPRGLDGAGDGRRRRGVEGERRRRREELTGNP  
QATRGKTLNLSRTFHACRNENDSCDKKKIHLGGIWNLGVPKLTVMRNTMFLFSKANAARSQSSDTNNKRVYYLSA  
MMNVRVASSVEFLFLLGTHWSLCLGPALMDTTKFALVFPLMYHTWNGIQHLMWDLGKGLKIPQLYQSGVVVLVLT  
VLFVGLAAV

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**FIGURE 678A**

ACAGAGAGATTGGTGTTTTTGTGAGGCAGTGAGACCTAAGGTAACCTTTATCAAAAGGATGGAGTTGGGAAAAGG  
AAACTACTCAGGACTGGACTGAATGCGTTGCATCAAGCAGTGCATCCGATCCATGGCCTTGCCCTGGACCGATGG  
GAATCAAGTTGTCTTAAGTATTGCGGCTTCACAGTGGAGAGGTCAAGTTTGGGGACTCCAAAGTCATTGGACA  
GTTTGAATGTGTCTGTGGGTTGTCTGGGCCCCACCTGTTGCAGATGATACACCTGTTCTACTCGCTGTCCAGCA  
TGAGAAGCATGTCACTGTGTGGCAGCTGTGTCCCAGCCCTATGGAGTCAAGCAAATGGCTGACGTCTCAGACTTG  
TGAGATTAGAGGATCACTACCTATCCTTCCCCAGGGCTGTGTGGCACCACCAAAATGTGCTATTCTGACTGTGTT  
GACTGCTCAGGATGTCTCCATTTTCCCTAATGTTCACTCTGATGATTCCCAGGTAAAGGCAGACATCAACACCCA  
GGGCCGCATTCACTGTGCATGTTGGACCCAGGATGGCCTGAGGCTGGTGGTGGCAGTAGGCAGCAGCCTGCATT  
TTATATTTGGGACAGCGCTCAGAAGACTCTTCACAGGTGCTCCTCCTGCCTGGTGTGTTGATGTGGACAGCCACGT  
CTGCTCCATCACAGCAACTGTGGACTCACAGGTGCTATAGCTACTGAGCTTCCATTGGATAAGATCTGTGGCTT  
AAATGCATCTGAAACCTTTAATATCCCACCTAACAGTAAAGACATGACTCCGTATGCTTTACCAGTTATTGGTGA  
AGTACGCTCTATGGATAAAGAGGCAACTGATTCTGAAACAAATCTGAAGTATCAGTTTCTTCTCTCTATTTAGA  
ACCTCTGGATCTAACTACATACATTTCAATCAACATAAGTCTGAGGGTAATTTCTTATTGTTCTAAGAAAAA  
GGACTACTTGACAGGAAGTGGCCAAGATTCTTCACATTGGTCTGTGACCTTAAAGAAGGCAGTTACCATGAC  
GAGAAAAGTCACTATTCCAGGCATTCTGGTTCCTGATCTGATAGCATTAAATCTTAAAGCCCACGTAGTGGCAGT  
GGCTTCCAACACTTGTAATATAATTTTGATCTACTCTGTCACTCCATCTTCAGTCCCAAACATCCAGCAAATTCG  
ATTAGAGAACACTGAAAGACCAAAAGGGATATGTTTCTTGACAGACCAACTATTACTAATTTTGGTAGGAAAACA  
AAAACCTCACTGATACAACATTTCTTCTCTTCAAAGTCTGATCAGTATGCCATTAGCTTGATTGTTAGAGAAAT  
AATGTTGGAAGAAGAACCTTCAATAACATCAGGTGAAAGCCAGACTACCTACTCTACTTTTCACTGCTCCGTTAAA  
TAAAGCAAATAGAAAAAGTTAATTGAAAGTCTTTCCCCAGATTTTGTGACCAAAACAAAGGGCTGTGCTGAC  
AGTTAATACCAGTAGTCAGAATGGAAGGCTGGAAGAACACTTATTAAAGAAATCCAGAGTCCCTCTGTCTAGTAT  
CTGTGATGGCTCCATAGCTCTAGATGCTGAGCCTGTTACCCAGCCAGCATCGCTGCCAGACACAGCAGCACACC  
AGACCACACCAGCACACTGGAGCCTCCTCGTTTGCCTCAAAGAAAGAACTTACAAAGTGAAAGGAAACTTATCA  
GCTGTCTAAGGAGGTGGAAATTTTATCTAGGAACCTGAAATGAAATGCAACGGTGTCTTTCTGAACTTACAAACCG  
TCTGCATAATGGGAAGAAATCCTCTCTCAGTGTATCCACTCTCTCAAGATCTTCTTATGTTTACATCATTTACCA  
GAAACCTTATTATCTAGGTCTGTGTTGTTGAAAAAAGAGCGGTGCTTCTCTGTGATGGTAAACTAAGGCTCAGTAC  
AGTTTACGAGACTTTTGGCCTTTCTCTCAATTGAAATGCTACATGATTCCCACTGGATTCTTCTCTGTCTGACAG  
TGAGGGCTTTATCCCGTTAACCTTACAGCCACACAGGAAATAATCATAAGAGATGGCAGCCTGTCCAGGTGAGA  
TGCTTTCAGAGACTCTTTTTCTCACAGTCCAGGTGCTGTTTCTTCTCTTAAAGTCTTTACAGGCCTTGCTGCCCC  
CAGTTTATGATACCACTGGCTGTTGTAACCATGTAGATGGCATGGCTTGATATCTGCAGTGTCTTGTCTGTGTAGC  
TCTTCAGATGAGACCATTACAAACAAGGCTGCTTGACACTGGACACTCGCAATGAGACTCCCAGTGCCTCAG  
GCGAAGCGCTTGCCATGGTTCGGCTCTCTGGTTTTCCCTGTTTCCCTGAGCTGAGGCTCGCTGCTGTGTAGCA  
GAGCTCAGTCTTTATTAGATGGCTCCGAAAGTGGTGTGTTATGATTTATGACTGTGTGGTTTTGACTAAGGGCAG  
AATTCTCAGAACAAACAATATTATGGTGCCATATGGATGGTGTGTTTATGGTTTCTCTGAGGCTTTGTGTCCCTT  
GTCCAAAGCTGCATTGAAGCTGTCTTAGGAGCACTTAAAGATACTTGGCATTGTTATAGGTCTTTTTCTTGGC  
TTCAAGAGGAGGTTGAGGAGTCTGCTGGGGGCGATGTGCTCTAGCATATTAACCTCAAACCAAGCAAGAATTAGCA  
GAGCTCCAAGGAGGACCAGAGACCCACTGGCTTCTGCTCTCAGGAACAGGAAGTGGCTCTGATGTTGCCTGGACC  
TCCCAGAATTTAAACCAACCTCTTGTCTTCTTAAACAAATCTGGCTGACGAAGGTCCAGGTACTCTTAAAAAC  
TGGCCCTGGGAAAATTTGAATGAAATTTCAAGGGAATTTGTCCCTCTGGGTTCACCTTGAGGTTGTGCCGATG  
CTGCTACCACACTGTGAGCCAGGTAAGTCTACTGCAGGATTTTGTGCTGTGGCCACTCATGAGTGTCCCTGA  
AATAACTTTTTTTTTTTTTTAAATCCAGTTTTGGGATCACGCAACTTCTCTATTTTTCTCCAGTAGTCAGCTCCC  
TTAGTTAACTTGTCACTTTAATTTGATATTTTTATTTTCTCTCTTTTAAAGTCTTAGAGACCAGCAGAGAATCTG  
TGAGAGAAAGTATTTAGGAAGTTAGAAATTCAACCGAATCTGAGGTAGTCTAAAAAGTGCCATTTTGTTCAC  
TTATGGGCTAAAGTACCAGCTTAGTCAGGTAAGAGCCCTGACCACTTCAAGTGGTAACACCACTTCTCACTGCC  
TTCAGATGGAATCACAGATTTTCACTACGGCGCATACAAATTTGATCAGTGAAGTGGCTAGGCATCTGCAGATAAA  
TTGTTTTCAGCCATAGAAGCTCCATTAGCACATATGCTTCTTTTCCCCCTTCTTTTAAATCATCTGGAAGAA  
ACTATTTTGTGCCCTTGGGACTCCTGTCTGTCTGTTACAGTTTACCAAGATGGAGCTGGGTTAGGAAAGAAGTG  
AGGGCCCATTTTGTGGTTCAAGTGCCTAGACAGCTGCTGGGGTAGGAAGCACAGGCAATGTCTGCAATCAGCTG

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**FIGURE 678B**

TGGGAGAGCGGTGACTGAGAACAGTCTGAGGCCTGGCTCCACTTGAAGTATCTGGGGTGCGATGAAATCACAAT  
TATCTTGAAGCCTAAAGAGGGGAAGTACAAGACTGTAACTAAGATCAATGTGGGCACCTAAAAGGGTATGTTAAA  
ATCACCATTCTCAGGTCAAATACTGTGAAATAAAATGGAAACGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAA

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**FIGURE 679**

MELGKGKLLRTGLNALHQAVHPIHGLAWTDGNQVVLTDLRLHSGEVKFGDSKVIQFECVCGLSWAPPVADDT  
LLAVQHEKHVTVWQLCPSPMESSKWLTSTCEIRGSLPILPQGCVWHPKCAILTVLTAQDVSIFPNVHSDDSQVK  
ADINTQGRIHCACWTQDGLRLVVAVGSSLHSYIWDSAQKTLHRCSSCLVFDVDSHVCSITATVDSQVAIATELPL  
DKICGLNASETFNIPPNSKDMTPYALPVICEVRSMDEATDSETNSEVSVSSSYLEPLDLTHIHFNQHKSEGNL  
ICLRKKDYLTTGTGQDSSHLVLTFFKAVTMTRKVTIPGILVPDLIAFNLKAHVAVASNTCNIIILYVIPSSVP  
NIQQIRLENTERPKGICFLTQDQLLLILVGKQKLTDTTFLPSSKSDQYAI SLVREIMLEEEPSITSGESQTTYST  
FSAPLNKANRKKLIESLSPDFCHQNKGLLLTVNTSSQNGRPGRTLKEIQSPLSSICDGSIALDAEPVTQPASLP  
RHSSTPDHTSTLEPPRLPQRKNLQSEKETYQLSKEVEILSRNLVEMQRCLSELNRLHNGKKSSSVYPLSQDL  
PYVHIIYQKPYLGPVVEKRAVLLCDGKLRRLSTVQQTGFLSLIEMLDHSHWILLSADSEGFIPLTFTATQEIIR  
DGSLSRSDVFRDSFSHSPGAVSSLKVFTGLAAPSLDTTGCCNHVDGMA



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**FIGURE 680**

TTCTCTTAGCAGCACCCAGCTTGCCACCCATGCTCAAGATGGGCGGGATGCCAGCCTGTTACATAAAATGTGCCA  
AAAGCCTGGCCATGCCTGGAAAATGGACCAATCCGCCGCCAAGAGGTTGGGTCTCGTTCCCTAGAGAGAAGGAA  
GTTTCCTCTCCTTGAAGTGAGAGCTAGAATCGCACTTTCTGTCAAGCTGAGAGAAAAGACTCTTTTCCAGAGGCTA  
AAAGGACAAGAAAATCTGATTGTCTTGCTTCTAACTTTGCGTTTTAAAGGGGGAAGGAGGAAAGGAAAGAGGGGG  
AGGGTGGTTCTGCTTAGCCCCACCCCTCCGGCTACCCAGGTCCAGCCGTCCATTCCGGTGGAGGCAGAGGCAGT  
CCTGGGGCTCTGGGGCTCGGGCTTTGTACCGGGACCCGACAGGAGCCAGAACCACTCGGCGCCGCCCTGGTGCATG  
GGAGGGGAGCCGGGCCAGGAACAATATGTTAGCCGTGCACTTTGACAAGCCGGGAGGACCGGAAAACCTCTACGT  
GAAGGAGGTGGCCAAGCCGAGCCCGGGGAGGGTGAAGTCCTCCTGAAGGTGGCGGCCAGCGCCCTGAACCGGGC  
GGACTTAATGCAGAGACAAGGCCAGTATGACCCACCTCCAGGAGCCAGCAACATTTTGGGACTTGAGGCATCTGG  
ACATGTGGCAGAGCTGGGGCCTGGCTGCCAGGGACACTGGAAGATCGGGGACACAGCCATGGCTCTGCTCCCCGG  
TGGGGGCCAGGCTCAGTACGTCACTGTCCCCGAAGGGCTCCTCATGCCTATCCCAGAGGGATTGACCCTGACCCA  
GGCTGCAGCCATCCCAGAGGCCTGGCTCACCGCCTTCCAGCTGTTACATCTTGTGGGAAATGTTGAGGCTGGAGA  
CTATGTGCTAATCCATGCAGGACTGAGTGGTGTGGGCACAGCTGCTATCCAACCTACCCGGATGGCTGGAGCTAT  
TCCTCTGGTCACAGCTGGCTCCCAGAAGAAGCTTCAAATGGCAGAAAAGCTTGGAGCAGCTGCTGGATTCAATTA  
CAAAAAAGAGGATTTCTCTGAAGCAACGCTGAAATTCACCAAAGGTGCTGGAGTTAATCTTATTCTAGACTGCAT  
AGCGGATCCTACTGGGAGAAGAACGTCAACTGCCTGGCTCTTGATGGTCGATGGGTCTCTATGGTCTGATGGG  
AGGAGGTGACATCAATGGGCCCTGTTTTCAAAGCTACTTTTTAAGCGAGGAAGTCTGATCACCAGTTTGCTGAG  
GTCTAGGGACAATAAGTACAAGCAAATGCTGGTGAATGCTTTCACGGAGCAAATCTGCCTCACTTCTCCACGGA  
GGGCCCCAACGTCTGCTGCCGGTCTGGACAGAATCTACCCAGTGACCGAAATCCAGGAGGCCATAAGTACAT  
GGAGGCCAACAAGAACATAGGCAAGATCGTCTGGAAGTGGCCAGTGAAGGAGGATGGGGCAGGACAGGACGCG  
GCCACCCAGGCCTTTCCAGAGCAAACCTGGAGAAGATTACAATAGACAGGCCAAGAAACCCGGTGCTTCCTCC  
AGAGCCGTTTAAAGCTGATATGAGGAAATAAAGAGTGAAGTGG

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**FIGURE 681**

GGCACGAGGGTCCCCTTACCGCCTCCTGCTCCTGCCGCGCGCACCCCCGGGGCTTCGGCTCCGGCACGGGTTCGCG  
CCCAGCTTTTCCTGACCTGAGGCCGCCGCCAGCCGCCGCCATGGGTGCCTACCTCTCCCAGCCCAACACGGTGA  
AGTGCTCCGGGGACGGGGTCGGCGCCCCCGCGCCTGCCGCTGCCCTACGGCTTCTCCGCCATGCAAGGCTGGCGCG  
TCTCCATGGAGGATGCTCACAACCTGTATTCCTGAGCTGGACAGTGAGACAGCCATGTTTTCTGTCTACGATGGAC  
ATGGAGGGGAGGAAGTTGCCTTGTACTGTGCCAAATATCTTCTGATATCATCAAAGATCAGAAGGCCTACAAGG  
AAGGCAAGCTACAGAAGGCTTTAGAAGATGCCTTCTTGGCTATTGACGCCAAATTGACCACTGAAGAAGTCATTA  
AAGAGCTGGCACAGATTGCAGGGCGACCCACTGAGGATGAAGATGAAAAAGAAAAAGTAGCTGATGAAGATGATG  
TGGACAATGAGGAGGCTGCACTGCTGCTGAAGAGGCTACCATGACTATTGAAGAGCTGCTGACACGCTACGGGC  
AGAACTGTCAAGGGCCCTCCCCACAGCAAATCTGGAGGTGGGACAGGCGAGGAACAGGGTCCCAGGGCCTCA  
ATGGGGAGGCAGGACCTGAGGACTCAACTAGGGAACTCCTTCACAAGAAATGGCCCCACAGCCAAGGCCTACA  
CAGGCTTTTCCTCCAACCTCGGAACGTGGGACTGAGGCAGGCCAAGTTGGTGAGCCTGGCATTCCCCTGGTGAGG  
CTGGGCCTTCTGCTCTTCAGCCTCTGACAAGCTGCCTCGAGTTGCTAAGTCCAAGTTCTTTGAGGACAGTGAGG  
ATGAGTCAGATGAGGCGGAGGAAGAAGAGGAAGACAGTGAGGAATGCAGCGAGGAAGAGGATGGCTACAGCAGTG  
AGGAGGCAGAGAATGAGGAAGATGAGGATGACACCGAGGAGGCTGAAGAGGACGATGAAGAAGAAGAAGAAGAGA  
TGATGGTGCCAGGGATGGAAGGCAAAGAGGAGCCTGGCTCTGACAGTGGTACAACAGCGGTGGTGGCCCTGATAC  
GAGGGAAGCAGTTGATTGTAGCCAACGCAGGAGACTCTCGCTGTGTGGTATCTGAGGCTGGCAAAGCTTTAGACA  
TGTCTATGATCACAAACCAGAGGATGAAGTAGAACTAGCACGCATCAAGAATGCTGGTGGCAAGGTCACCATGG  
ATGGGCGAGTCAACGGGGGCCTCAACCTCTCCAGAGCCATTGGGGACCACTTCTATAAGAGAAACAAGAACCTGC  
CACCTGAGGAACAGATGATTTAGCCCTTCTGACATCAAGGTGCTGACTCTCACTGACGACCATGAATTCATGG  
TCATTGCCTGTGATGGCATCTGGAATGTGATGAGCAGCCAGGAAGTTGTAGATTTCAATCAATCAAAGATCAGCC  
AGCGTGATGAAAATGGGGAGCTTCGGTTATTGTATCCATTGTGGAAGAGCTGCTGGATCAGTGCCTGGCACCAG  
ACACTTCTGGGGATGGTACAGGGTGTGACAACATGACCTGCATCATCATTTGCTTCAAGCCCCGAAACACAGCAG  
AGCTCCAGCCAGAGAGTGGAAGCGAAACTAGAGGAGGTGCTCTCTACTGAGGGGGCTGAAGAAAATGGCAACA  
GCGACAAGAAGAAGAAGGCCAAGCGAGACTAGCAGTCATCCAGACCCCTGCCACCTAGACTGTTTTCTGAGCCC  
TCCGGACCTGAGACTGAGTTTTGTCTTTTTCTTTAGCCTTAGCAGTGGGTATGAGGTGTGCAGGGGGAGCTGGG  
TGCTTCACTCCGCCCATTCCAAAGAGGGCTCTCCCTCCACACTGCAGCCGGGAGCCTCTGCTGTCTTCCCAGC  
CGCTCTGCTCCTCGGGCTCATCACCAGTTCTGTGCCTGTGCTCTGTTGTGTGGAGGGAAGGACTGGCGGTTCT  
GGTTTTTACTCTGTGAACCTTTATTTAAGGACATTCTTTTTTATTGGCGGCTCCATGGCCCTCGGCCGCTTGCAAC  
CGCTCTCTGTTGTACACTTTCAATCAACACTTTTTTCACTAAAGGCCAAAACCTAAAAAAAAAAAAA

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**FIGURE 682**

MGAYLSQPNTVKCSGDGVGAPRLPLPYGFSAMQGWRVSMEDAHNCIPELDSETAMFSVYDGHGGEEVALYCAKYL  
PDI IKDQKAYKEGKLQKALEDAFLAIDAKLTTEEVIKELAQIAGRPTEDEDEKEKVADEDDVDNEEAALLHEEAT  
MTIEELLTRYGQONCHKGPPHSKSGGGTGEEPGSQGLNGEAGPEDSTRETSPQENGPTAKAYTGFSNSERGTGTEAG  
QVGEPGIPTGEAGPSCSSASDKLPRVAKSKFFEDSEDESDEAEEDSEECSEEDGYSSEEAENEDEDDTEE  
AEEDDEEEEEEEMVPGMEGKEEFGSDSGTTAVVALIRGKQLIVANAGDSRCVVSEAGKALDMSYDHKPEDEVELA  
RIKNAGGKVTMDGRVNGGLNLSRAIGDHFYKRKNLPPEEQMISALPDIKVLTLLTDDHEFMVIACDGIWNVMSSQ  
EVVDFIQSKISQDENGELRLSSIVEELLDQCLAPDTSGDGTGCDNMTCIICFKPRNTAELQPESGKRKLEEV  
LSTEGAEENGNSDKKKKAKRD

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**FIGURE 683**

CCACTGCCGCTGCCGCCGCTCTCCTTAGTCGCCGGCATGACGACCGCTCTACCTCGCAGGTGCGCCAGAACTT  
GCTGAGAAATTGATGAAGCTGTAGAACCAACGAGGTGGCCGAATCTTCCTTCAGGATATCAAGAAACCAGACTGT  
GCGGGGAGAATGCGATGGGAGAGCGGGCTGAATGCGATGGATTACATTTGAAAAAATTGTGCATTTGCATTAC  
ATTTGAAAAAATGTGAATCAGTCACTACTGGAAGTGCACAACTGGCCACTGACAAAAATGACCCCCATTTGT  
GTGACTTCATTGAGACACATTACCTGAATGAACAAGTGAAGGCCATCAAAGAATTGGGTGACCACGTGACCAACA  
TGCACGAGATGGGAGCGCCCGAATCTGGCGTGGCAGAATACCTCTTTGACAAGCACACCCTGGGAGACAGTGATA  
ATGAAAGCTAAGCCTCAGGCTAATTTCCCATAGCCATAGGGTGACTTACCTTGTACCAAGGCAGCGCATGTAT  
GTGGGGTTTCCTTTACCTTTTCTATAAGTTGTTCCAAGACACCCACTTAAGTTCTTTGATTGTACCATTCTT  
CAAATAAATAAATTTGGTACCC

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**FIGURE 684**

CCCTATCCGGACAGGTGGCTCTTGCCCTTTAGACTACAGTTCCCAGCATGCCAGGCGATTGCGTCCCAGAACCG  
ACGTCCCACCGCCTTCCCACATCGGATCGCAGGGCTCCCAAATGGCGAGTGAGGCTGCGGGGACTCGCTGAGCA  
GCGGAGGGGGAGCGTGCAGAGCCGCTGCGGCCCTCACAGTCCGGAGCCCGGCCGTGCCGTGCCGTAGGGAACATG

CACTTTTCCATTCCCGAAACCGAGTCCCGCAGCGGGGACAGCGGCGGCTCCGCCTACGTGGCCTATAACATTAC  
GTGAATGGAGTCCTGCACTGTCGGGTGCGCTACAGCCAGCTCCTGGGGCTGCACGAGCAGCTTCGGAAGGAGTAT  
GGGGCCAATGTGCTTCCCTGCATTCCCCCAAAGAAGCTTTTCTCTGACTCCTGCTGAGGTAGAACAGAGGAGA  
GAGCAGTTAGAGAAGTACATGCAAGCTGTTCCGGCAAGACCCATTGCTTGGGAGCAGCGAGACTTTCAACAGTTTC  
CTGCGTCGGGCACAACAGGAGACACAGCAGGTCCCCACAGAGGAAGTGTCTTGGAAAGTGCTGCTCAGCAACGGG  
CAGAAAGTTCTGGTCAACGTGCTAACTTCAGATCAGACTGAGGATGTCTTGGAGGCTGTAGCTGCAAGCTGGAT  
CTTCCAGATGACTTGATTGGATACTTTAGTCTATTCTTAGTTCCGAGAAAAAGAGGATGGAGCCTTTTCTTTTGTA  
CGGAAGTTGCAAGAGTTTGAGCTGCCTTATGTGTCTGTCCAGCCTTCGGAGTCAAGAGTATAAGATTGTGCTA  
AGGAAGAGTTATTGGGACTCTGCCTATGATGACGATGTCATGGAGAACC GG GTGGCCTGAACCTGCTTTATGCT  
CAGACGGTATCAGATATTGAGCGTGGGTGGATCTTGGTCACCAAGGAACAGCACCGGCAACTCAAATCTCTGCAA  
GAGAAAGTCTCCAAGAAGGAGTTCTTGAGACTGGCCAGACGCTGCGGCACTATGGCTACTTGCCTTTGATGCC  
TGTTGTGGCTGACTTCCCAGAAAAGGACTGTCTGTGGTGGTGAGCGCGGGCAACAGTGAGCTCAGCCTGCAGCTC  
CGCCTGCCTGGCCAGCAACTCCGAGAAGGCTCCTTCCGGGTCACCCGCATGCGATGCTGGCGGGTCACCTCCTCT  
GTACCATTGCCCAGTGGAAGCACGAGCAGCCAGGCCGGGGCCGGGGTGAGGTGCGCCTGGAACCTGGCTTTTGAA  
TACCTCATGAGCAAGGACCGGCTACAGTGGGTACCATCACTAGCCCCAGGCTATCATGATGAGCATCTGCTTG  
CAGTCCATGGTTGATGAAGTATGGTGAAGAAATCTGGCGGCAGTATCAGGAAGATGCTGCGCCGGCGGGTGGGG  
GGTACTCTGAGACGCTCAGACAGCCAGCAAGCAGTGAAGTCCCCACCACTGCTTGAGTCACCTGATGCCACCCGG  
GAGTCTATGGTCAAACCTCTCAAGTAAGCTGAGTGCCGTGAGCTTGGGGGAATTGGCAGTCCCAGCACAGATGCC  
AGTGCCAGTGATGTCCACGGCAATTTGCGCTTCGAGGGCATTGGAGATGAGGATCTGTAATCTCCACTGCTTGGA  
TGCTGCCCCCTACCCAGAGGAATTTACAGAAACTTGCCCTGTGCCTGTGTCCCCCATGCTAGGGGCGGAGGGG  
TCTTTTCTTCTTCTTTCTTCTACCTACCCCTTTTCTTCTTGGCCAGGGGCTCGTATCCTACCTTTCTTGTCCCCT  
GGGCTGGCTGCACAGAGGATTGCCCCTTCTCTTTTCAGAGCTGGCCCTCGATGCCAAATTAGCATTTAGTATTTT  
GCACAAAGTCTAAGGGACCATGGCTGCCTGCCTTGGGGAGGAACCATAGCTCCCTCTGGGCCGCTTCTGGCCCTCT  
TGGAGCCATGGGCCAAAGGCCAAGGGGATGGGCAGAGGTCTGTGTTGGTCTGGCCAGTTCCCCATCATTAAC  
TCAGCCTGACTGCTGCCT

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**FIGURE 685**

MHFSIPETESRSGDSGG SAYVAYNIHVNGVLHCRVRYSQLLGLHEQLRKEYGANVLP AFPPKKLFSLTPAEVEQR  
REQLEKYMQAVRQDPLLGSSETFNSFLRRAQQETQQVPT EEVSLEVLLSNGQKVLVNVLTSDQTEDVLEA AAKL  
DLPDDLIGYFSLFLVREKEDGAFSFVRKLQEFELPYVSVTSLRSQ EYKIVLRKSYWDSAYDDDMENRVGLNLLY  
AQTVSDIERGWILVTKEQHRQLKSLQEKVSKKEFLRLAQT LRHYGYLRFDACVADFPEKDCPVVVSAGNSELSLQ  
LRLPGQQLREGSFRVTRMRCWRVTSSVPLPSGSTSSPGRGRGEVRLELAF EYLSKDRQLQWVTITSPQAIMMSIC  
LQSMVDELMVKKSGGSIRKMLRRRVGGTLRRSDSQAVKSPPLESPDATRES MVKLSSKL SAVSLRGIGSPSTD  
ASASDVHGNFAFEGIGDEDL

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**FIGURE 686**

GATGGCTGCTGTGGCCGTGGCTGTTGCGGAGGACTCGGGATCCGGGATGAAGGCGGAGCTTCCCCCTGGGCCTGG  
GGCAGTGGGGAGGGAAATGACCAAAGAAGAAAAGCTGCAGCTTCGGAAGGAAAAGAAACAGCAGAAGAAGAAACG  
GAAGGAAGAAAAGGGGGCAGAACCCAGAGACTGGCTCTGCTGTATCTGCAGCCCAATGTCAAGTAGGCCCAACCAG  
AGAACTGCCAGAATCGGGCATTGAGTTGGGCACTCCTCGGGAGAAAAGTTCCAGCTGGTCGGAGTAAGGCCGAAC  
TCGGGCTGAGCGTCGAGCCAAGCAGGAGGCCGAGCGGGCCCTGAAACAGGCAAGAAAAGGGGAACAAGGAGGACC  
ACCTCCTAAGGCCAGCCCCAGCACAGCTGGAGAAAACCCCTCAGGAGTGAAGCGTCTCCCTGAGTACCCTCAGGT  
TGATGACCTACTTCTGAGAAGGCTTGTTAAAAAACCAGAGCGTCAACAGGTTCTTACACGAAAGGATTATGGATC  
CAAAGTCAGTCTCTTCTCTCACCTACCCAGTACAGCAGACAAAACCTCTTGACCCAGTTTATGAGCATCCCATC  
CTCTGTGATCCACCCAGCCATGGTGCAGTCTCGGCCTGCAGTACTCCAGGGCCTGGTCAGTGGCTCCAATGCCCC  
GTGTATTGCCCTGCTTCGTGCCTTGACAGCAGGTGATTGAGGATTACACAACACCGCCTAATGAAGAACTCTCCAG  
GGATCTAGTGAATAAACTAAAACCTACATGAGCTTCCTGACTCAGTGCCGTCCCCTGTGAGCGAGCATGCACAA  
CGCCATCAAGTTCCTTAACAAGGAAATCACCAGTGTGGGCAGTTCCAAGCGGGAAGAGGAGGCCAAGTCAGAACT  
TCGAGCAGCCATTGATCGGTATGTGCAAGAGAAGATTGTGCTAGCAGCTCAGGCAATTTACGCTTTGCTTACCA  
GAAGATCAGTAATGGAGATGTGATCCTGGTATATGGATGCTCATCTCTGGTATCACGAATTTCTCAGGAGGCTTG  
GACAGAGGGCCGGCGGTTTCGGGTGGTAGTGGTGGACAGCCGGCCATGGCTGGAAGGAAGGCACACACTACGTTT  
TCTAGTCCATGCTGGTGTCCCAGCCTCCTACCTGCTGATTCTGTCAGCCTCCTATGTGCTCCCAGAGGTTTCCAA  
GGTGCTATTGGGAGCTCATGCACTCTTGCCCAACGGGTCTGTGATGTACGCGGTAGGGACAGCACAGTTAGCCCT  
GGTGGCTCGAGCCCATATGTACCAAGTGTGGTTTGCTGTGAAACATACAAAGTTCTGTGAGCGTGTGCAGACTGA  
TGCCTTTGTCTCTAATGAGCTAGATGACCCTGATGATCTGCAATGTAAGCGGGGAGAACATGTTGCGCTGGCTAA  
CTGGCAGAACCACGCATCCCTACGGTTGTTGAATCTAGTCTATGATGTGACTCCCCCAGAGCTTGTGGATCTGGT  
GATCACGGAGCTGGGGATGATCCCTTGCACTTCTGTACCTGTTGTTCTACGAGTCAAGAGCAGTGACCAGTGACG  
GGGGAACACAGGGTTAATAAATGCCATACTCCCTACCCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAC

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**FIGURE 687**

MAAVAVAVREDSGSGMKAELPPGPGAVGREMTKEEKLQLRKEKKQQKKRKEEKGAEPETGSAVSAAQCQVGPTR  
ELPESGIQLGTPREKVPAGRSKAELRAERRAKQEAERALKQARKGEQGGPPPKASPSTAGETPSGVKRLPEYPQV  
DDLLLRLVKKPERQQVPTRKDYGSKVSLFSLPQYSRQNSLTQFMSIPSSVIHPAMVRLGLQYSQGLVSGSNAR  
CIALLRALQQVIQDYTTTPNEELSRDLVNKLKPYMSFLTQCRPLSASMHNAIKFLNKEITSVGSSKREEEAKSEL  
RAAIDRYVQEKIVLAAQAISRFAYQKISNGDVILVYGCSLVSRLQEAWTEGRRFRVVVDSRPWLEGRHTLS  
LVHAGVPASYLLIPAASYVLPEVSKVLLGAHALLANGSVMSRVGTAQLALVARAHNPVLVCCETYKFCERVQTD  
AFVSNELDDPDDLQCKRGEHVALANWQNHASLRLNLVYDVTPELVDLVITELGMIPCSSVPVVLRVKSSDQ



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**FIGURE 688**

AGGACTTTGGCGAGGGGGCAGCCATTTTGGGGGGTGTGATGGATACCTGCGGGGTCGGCTATGTTGCCCTGGGG  
GAGGCCGGCCCCGTGGGGAACATGACTGTGGTAGACTCTCCTGGACAAGAGGTGCTAAATCAGCTTGATGTCAAG  
ACCTCTTCAGAAATGACCAGTGAGAGGCTTCCGTAGAGATGTCAATACCTACCCCTTGCCTGGATTGAGGAT  
TCTCCTGATCAGAGGAGGCTCCCTCCAGAGCAGGAAAGCCTCTCCAGACTGGAACAGCCAGATCTTTCTTCAGAG  
ATGTCAAAGGTCTCAAAGCCTAGGGCCTCAAAGCCTGGCCGGAAGAGAGGTGGTAGGACACGAAAAGGCCCCAAA  
AGGCCCCAACAGCCTAATCCTCCATCAGCCCCACTGGTTCCTGGTCTCTTAGATCAATCCAACCCTCTGTCCACC  
CCCATGCTAAGAAACGAGGTGAAAGTCCAAGGCAGAGCTGCTGCTGCTGAAGTTGTCAAAGACCTAGATCGG  
CCAGAATCTCAATCTCAAAGAGGCCCCCTGAGGACTTTGAGACCCCTTCTGGGGAACGACCCCGCGAAGGGCT  
GCCAAGTGGCACTTCTGTATCTTCAGGAACGGCTGAAGAGCTCTAACAGCCCTGCCTGCCCCCTGTGTCTGT  
CCTGAGGGCCCCAAGGTGAGCAGCCCCACCAAACGAAGAAGATCCGGCAGCCAGCAGCCTGTCCAGGTGGAGAA  
GAGGTGGATGGTGTCTCCACGGGATGAAGACTTTTTTCTCCAGGTTGAGGCTGAAGATGTGAAGAAAGTGAGGGC  
CCAAGTGAGAGCTCATCTGAACCTGAGCCTGTAGTGCCCCGAAGCACCACAGGATCTACTTCAGGGAACAG  
AAACCACACTGCCGAGGAATGGCTCCCAATGGCTTACCAAATCATATCATGGCTCCTGTTTGAAGTGCCTCCAT  
CTCACCAGGACTTCCGAGAGCAGAAACATTCTACTGGGAGTTTGCTGAGTGGATTCTTTAGCCTGGAAGTGG  
CACTTGTTATCTGAGCTTGAGGCCGCTCCCTACCTGCCCCAGGAGGAGAAGTCTCCATTGTTTCTGTACAACGT  
GAAGGGCTACCTGAAGATGGCACCCTCTACCGAATAAACAGATTAGCTCGATCACAGCACATCCAGAGCGCTGG  
GATGTGTCTTCTTCACGGGGGGACCGCTCTGGGCTCTGGACTGGTGGCCAGTGCCAGAGGGGGCAGGAGCCTCG  
CAATATGTGGCTCTTTTCTCCAGCCCTGACATGAATGAGACACACCACCTGAGCCAGCTTCATTTCGGGTCTCTGGG  
CTGCTCCAGCTCTGGGGCCTTGGGACCTTGACAGCAAGAAAGCTGTCTGGCAACAGGGCCCACTTTGTCTATGGG  
ATTGCTTGTGACAACGGCTGCATCTGGGACCTCAAGTTCTGCCCCAGTGGAGCATGGGAACCTCCAGGCACCCCT  
CGGAAGGCTCCTCTCTGCCCCGGTTGGGTCTCTTGGCTCTGGCCTGCTCAGACGGGAAAGTACTGCTATTCAAGT  
CTACCCCATCCGGAGGCCCTGCTGGCTCAGCAACCCCAAGATGCAGTGAAGCCTGCCATATATAAGGTACAATGT  
GTGGCAACTCTGCAGGTGGGGTCTATGCAAGCTACAGACCCCTCTGAGTGTGGTCAAGTGCCTTAGCCTGGCCTGG  
ATGCCTACCAGGCCCCACCAACACCTAGCTGCTGGATATATAATGGCATGGTGGTTTTCTGGAACCTTCCCACT  
AACTACCCCTGCAGCGGATACGGCTCTCTGATGGCTCCTTAAAGCTCTACCCCTTCCAGTGTTCCTAGCCCAT  
GACCAGGCTGTGCGTACCCCTTCAATGGTGAAGCTAACAGCCATTTCTTGTCTCTGCGGGGAGTGACCGGAAA  
ATCAAATTCTGGGACCTTCGACGTCTTACGAACCCATAAACTCTATCAAGCGCTTCTTGAGTACAGAACTGGCC  
TGGTGTCTTCCCTACAATGGTGTCACTGTGGCTCAGGACAACCTGCTATGCCTCTTATGGACTCTGTGGGATTCT  
TATATTGACGCTGGTTACCTTGGTTTCAAGGCCTACTTCACTGCTCCTCGAAAAGGCACCGTTTGGAGTCTTTCA  
GGATCCGACTGGCTTGGGACAATAGCTGCAGGAGATATATCCGGGGAGCTCATTGCTGCTATATTACCAGATATG  
GCATGAATCCAATAAATGTCAAGCGACCTGTAGAGCGAAGATTTCTATATATAAAGCAGATCTGATACCGTAT  
CAGGACAGTCTGAAAGTCCAGACCACTTCTTCTGCTTCACTGCGGTCCCCAACCCCTCCCAAGGCTCGAACTTAC  
ACTGAAACTGTCAACCATCACTACTTGGCTTTTCAAGACACAGATTGGGTTTCACTTCCATGATCTGCTCCGTAGA  
GAACCAATGCTGCGCATGCAGGAGGGAGAGGGGCATTCTCAACTCTGCCTGGACAGGCTGCAGCTGGAGGCTATT  
CATAAGGTACGTTTTCAGCCCAAACCTGGACTCCTATGGATGGCTGGTATCTGGGGGGCAGTCAGGCTGGTTTCA  
ATCCATTTTGTCCGTGGACTCGCCTCCCCACTGGGCCACCGTATGCAGCTTGAAAGCCGAGCCCACTTCAATGCT  
ATGTTCCAACCATCCTCCCCCACTAGACGGCTGGCTTCTCTCCAACAGCCATCGCCTTCTGCCCCACTCCCTAG

CCTTGGCCCCACACCAGATCCTTGGAGTGAAGTCGGTCAAGAACAAATGGCCCCATGCACAGAGCCATAGGAAC  
GGGGGCCCTTCCCTGGACAGTGATCATGCCAGGCTGGACCTTTAGGCCTGCCTCCCCAGGACTCCTTAGATCCCA  
CTCTTTCTACAGACTTCTGTGATCACAGCCCCCTGCGGGCAGGGGGGCTCTCCCTCCACCAACTCTCAAGGCTCC  
TCAGCCTAAGACTATGGCTCATGAGAAACACTCAGGCCTGACCTAGGCTTGGGAGTCAAACCTGCTCATATTGAGC  
ATATTGTTAAGTGGGTAAAGCCAAGTAAAGGTACTGGGTGTTTTTGTGACCACTTGTAATGGGTGTATGGAGAA  
CTGAAAAGGGTATCTGCATGAAGGCTCCTGTCTGACTATTCCAGGATCCAATATTACTGCCTTCTGAACTTCTT  
CTTTAGGGTAACCATCATGTATGCCACGAGGGTGATAGTAATTCGTGAGACTGAAGTTGCTTAGAGTACTTCTT  
TGACCAAGGAATACCACAGACACCCCTACCGATAGAACAGTGGCTCAGATCTTACTTGCTCCTGCTTACGAAGTAT  
TCCCAATCACTGGTCTATCTGACCCTACTTGAACACTCCTGAACAGTCATGTTTTTAAATCTTCTTTATATCA  
AGTCAGAGAGTATACTTCTATAAATTTCACTCATGGATGTTAGGAAATCTAGTCATCTTCCCTGTGATTGCCCTG  
TTAAGTATTAAACCATAGCTATCATGTGTTTCCCAAATCTTCTTAGATTAAATATCTTCAGTTACTTC

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**FIGURE 689**

MDTCGVGYVALGEAGPVGNMTVVDS PGQEVLNQLDVKTSSEMTSAEASVEMSLPTPLPGFEDSPDQRRLPPEQES  
LSRLEQPDLSSEMSKVS KPRASKPGRKRGGTRKGP KRPQQPNPPSAPLVPGLLDQSNPLSTPMPKKRGRKSKAE  
LLLLKLSKDLDRPESQSPKRPPEDFETPSGERPRRRAAQVALLYLQELAEELSTALPAPVSCPEGPKVSSPTKPK  
KIRQPAACPGGEEVDGAPRDEDFFLQVEAEDVEESEGPPSESSEPEPVVPRSTPRGSTSGKQKPHCRGMAPNGLP  
NHIMAPVWKCLHLTKDFREQKHSYWEFAEWIPLAWKWHLLSELEAAPYLPQEEKSPLFSVQREGLPEDGTLYRIN  
RFSSITAHPERWDVSFFTGGPLWALDWCPVPEGAGASQYVALFSSPDMNETHPLSQLHSGPGLLQLWGLGTLQQE  
SCPGNRAHFVYGIACDNGCIWDLKFCPSGAWELPGTPRKAPLLPRLGLLALACSDGKVLLFSLPHPEALLAQQPP  
DAVKPAIYKVQC VATLQVGSMQATDPSECGQCLSLAWMPTRPHQHLAAGYYNGMVVFWNLPTNSPLQRIRLSDGS  
LKLYPFQCF LAHDQAVRTLQWCKANSHFLVSAGSDRKIKFWDLRRPYEPINSIKRFLSTELAWLLPYNGVTVAQD  
NCYASYGLCGIHYIDAGYLGFKAYFTAPRKGTVWSLSGSDWLGTIAAGDISGELIAAILPDMALNPINVKRPVER  
RFPIYKADLIPYQDSPEGPDHSSASSGVPNPPKARTYTETVNHHYLLFQD TDLG SFHDLLRREPMLRMQEGEGHS  
QLCLDRLQLEA IHKVRFSNLD SYGWLVS GGQSGLVRIHFVRGLASPLGHRMQLESRAHFNAMFQPSSTTRPGF  
SPTSHRLLPTP

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**FIGURE 690**

GAGGGACGGTGGGGGTGACCCCTCTCCTCTTGGCTTGACAGGAAGCATGGCACTCTGGCGGGCATAACCAGCGGG  
CCCTGGCCGCTCACCCGTGGAAGTACAGGTCTGACAGCTGGGTCCCTGATGGGCCTGGGTGACATTATCTCAC  
AGCAGCTGGTGGAGAGGCGGGGTCTGCAGGAACACCAGAGAGGCCGGACTCTGACCATGGTGTCCCTGGGCTGTG  
GCTTTGTGGGCCCTGTGGTAGGAGGCTGGTACAAGGTTTGGATCGGTTTCATCCCTGGCACCACCAAAGTGGATG  
CACTGAAGAAGATGTTGTTGGATCAGGGGGGCTTTGCCCCGTGTTTTCTAGGCTGCTTTCTCCCACTGGTAGGGG  
CACTTAATGGACTGTCAGCCCAGGACAACCTGGGCCAAACTACAGCGGGATTATCCTGATGCCCTTATCACCAACT  
ACTATCTATGGCCTGCTGTGCAGTTAGCCAACCTTCTACCTGGTCCCCCTTCATTACAGGTTGGCCGTTGTCCAAT  
GTGTTGCTGTTATCTGGAACCTCTACCTGTCTGGAAGGCACATCGGCTCTAAGCCTGCCTCACTCCATCGTTTC  
CACCTTGCACTGATGCAGCTTGACCCTGGAACGGTCAGACAACCTCCTCAAAGTGGGCATACCAGTTTCCACGGG  
GTTGGGTGCGCGTTCAGAGCTTAAGAGGACTAGCACCTGCAATGCCCCCTCTTCACTCTAAATGTACACTGACT  
GCTTTAGAGCCCTTGATAATAGTCTTATTCCCACCACATACTAGGCACTCCATAAATATCTGTTGAACCTTCATG  
ACCTTATCAACTTTACACCCATATCCCAGCAAATGCCACTCATCCCCACTCTTCATAGACACATTTGTTACTCTA  
ACCCTGCCTAGGCTTCTGTAGCTCCAGCTCTTTAGAGACTCCCGGAACCCTTTATATGGTGCCTCAGTAAATAT  
GTTATTAAATATGTAATCCGG

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**FIGURE 691**

MALWRAYQRALAAHPWKVQVLTAGSLMGLGDIISQQLVERRGLQEHQRGRTLTMVSLGCGFVGPVVGWYKVLDR  
FIPGTTKVDALKKMLLDQGGFAPCFLGCFPLPLVGALNGLSAQDNWAKLQRDYPDALITNYYLWPAVQLANFYLP  
LHYRLAVVQCVAVIWN SYLSWKAHRL

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**FIGURE 692A**

CGCCCCCGCCTCTGAGCTCCCTTCCCATTGGCGGCCCTAGTGTTGGAGGACGGGTCCGTCTGCGGGGCCAGCCCT  
TTGGGGCCGCGTGTCTGACTGCCGGGGAAGTGGTGTTCAAACCGGCATGGTCGGCTACCCCGAGGCCCTCACTG  
ATCCCTCCTACAAGGCACAGATCTTAGTGCTCACCTATCCTCTGATCGGCAACTATGGCATCCCCCAGATGAAA  
TGGATGAGTTCGGTCTCTGCAAGTGGTTTGAATCCTCGGGCATCCACGTAGCAGCACTGGTAGTGGGAGAGTGCT  
GTCCTACTCCCAGCCACTGGAGTGCCACCCGCACCCTGCATGAGTGGCTGCAGCAGCATGGCATCCCTGGCTTGC  
AAGGAGTAGACACTCGGGAGCTGACCAAGAAGTTGCGGGAACAGGGGTCTCTGCTGGGGAAGCTGGTCCAGAATG  
GAACAGAACCTTCATCCCTGCCATTCTTGGACCCCAATGCCCGCCCCCTGGTACCAGAGGTCTCCATTAAAGACTC  
CACGGGTATTCAATACAGGGGGTGCCCTCGGATCCTTGCTTTGGACTGTGGCCTCAAGTATAATCAGATCCGAT  
GCCTCTGCCAGCGTGGGGCTGAGGTCACTGTGGTACCCTGGGACCATGCACTAGACAGCCAAGAGTATGAGGGTC  
TCTTCTTAAGTAATGGGCTGGTGACCCTGCCTCCTATCCCAGTGTCTATCCACTGAGCCGTGTTTTATCTG  
AGCCTAATCCCGACCTGTCTTTGGGATCTGCCTGGGACACCAGCTATTGGCCTTAGCCATTGGGGCCAGACTT  
ACAAGATGAGATATGGGAACCGAGGCCATAACCAGCCCTGCTTGTGGTGGGCTCTGGGCGCTGCTTTCTGACAT  
CCCAGAACCATGGGTTTGTCTGTGGAGACAGACTCACTGCCAGCAGACTGGGCTCCTCTCTTACCAACGCCAATG  
ATGGTTCCAATGAAGGCATTGTGCACAACAGCTTGCCCTTTCTTCAGTGTCCAGTTTCACCCAGAGCACCAGCTG  
GCCCTTCAGATATGGAAGTGTCTTTTCGATATCTTTCTGGAACTGTGAAAGAGGCCACAGCTGGGAACCTGGGG  
GCCAGACAGTTAGAGAGCGGCTGACTGAGCGCCTCTGTCCCCCTGGGATTCCCACTCCCGGCTCTGGACTTCCAC  
CACCACGAAAGTTCTGATCCTGGGCTCAGGGGGCCTCTCCATTGGCCAAGCTGGAGAATTGACTACTCGGGCT  
CTCAGGCAATTAAGGCCCTGAAGGAGGAAAACATCCAGACGTTGTGTATCAACCCCAATATTGCCACAGTGCAGA  
CCTCCCAGGGGCTGGCCGACAAGTCTATTTTCTTCCATAACACCTCATTATGTAACCCAGGTGATACGTAATG  
AACGCCCCGATGGTGTGTACTGACTTTTGGGGGCCAGACTGCTCTGAAGTGTGGTGTGGAGCTGACCAAGGCCG  
GGGTGCTGGCTCGGTATGGGGTCCGGGTCTGGGCACACCAGTGGAGACCATTGAGCTGACCGAGGATCGACGGG  
CCTTTGCTGCCAGAATGGCAGAGATCGGAGAGCATGTGGCCCCGAGCGAGGCAGCAAATCTCTTGAACAGGCC  
AGGCAGCCGCTGAACGGCTGGGGTACCCTGTGCTAGTGCGTGCAGCCTTTGCCCTGGGTGGCTGGGCTCTGGCT  
TTGCCTCTAACAGGGAGGAGCTCTCTGCTCTCGTGGCCCCAGCTTTTGCCATAACCAGCCAAGTGCTAGTAGACA  
AGTCTCTGAAGGGATGGAAGGAGATTGAGTACGAGGTGGTGAGAGACGCCATAGGCACTGTGTACGGTGTGTA  
ACATGGAGAATTTGGACCCACTGGGCATCCACACTGGTGAGTCCATAGTGGTGGCCCCTAGCCAGACACTGAAATG  
ACAGGGAGTATCAGTCTTGAGGCAGACAGCTATCAAGGTGACCCAGCACCTGGGAATTGTTGGGGAGTGCAATG  
TGCAGTATGCCTTGAACCTTGAGTCTGAGCAGTATTACATCATTGAAGTGAATGCCAGGCTCTCTCGCAGCTCTG  
CCCTGGCCAGTAAGGCCACAGGTTAICCACTGGCTTATGTGGCAGCCAAGCTAGCATTGGGCAATCCCTTTGCCTG  
AGCTCAGGAATCTGTGACAGGGGTACAGCAGCCTTTGAACCCAGCGTGGATTATTGTGTGGTGAAGATTCCCTC  
GATGGGACCTTAGCAAGTTCTTGCAGTACAGCACAAGATTGGGAGCTGCATGAAGAGCGTTGGTGAAGTCATGG  
GCATTGGGCGTTCAATTGAGGAGGCCCTCCAGAAGGCCCTGCGCATGGTGGATGAGAAGTGTGGGCTTTGATC  
ACACAGTGAACACAGTCAGCGATATGGAGTTGGAGACTCCAACAGATAAGCGGATTTTTGTGGTGGCAGCTGCTT  
TGTGGGCTGGTTATTCAGTGGACCGCTGTATGAGCTCACACGCATCGACCGCTGGTTCCCTGCACCGAATGAAGC  
GTATCATCGCACATGCCAGCTGCTAGAACAAACACCGTGGACAGCCTTTGCCGCCAGACCTGTGCAACAGGCCA  
AGTGTCTTGGCTTCTCAGACAAACAGATTGCCCTTGCAGTTCTGAGCACAGAGCTGGCTGTTTCGCAAGCTGCGTC  
AGGAAGTGGGGATCTGTCCAGCAGTGAACAGATTGACACAGTTGACAGCTGAGTGGCCAGCCCAGACAAATTACC  
TATACCTAACGTATTGGGGCACCACCCATGACCTCACCTTTGGAACACCTCATGTCTAGTCTTGGCTCTGGCG  
TCTACCGTATTGGCTTAGCGTTGAATTTGACTGGTGTGCTGTAGGCTGCATCCAGCAGCTCCGAAAGATGGGAT  
ATAAGACCATATGTTGAACATAAACCAGAGACAGTCAGCACCAGCTATGACATGTGTGATCGACTCTACTTTG  
ATGAGATCTCTTTTGAAGTGGTGTATGGACATCTATGAGCTCGAGAACCCTGAAGGTGTGATCTATCCATGGGTG  
GACAGCTGCCCAACAACATGGCCATGGCGTTGCATCGGCAGCAGTGCCGGGTGCTGGGCACCTCCCTGAAGCCA  
TTGACTCGGCTGAGAACCGTTTCAAGTTTTCCCGGCTCCTTGACACCATTGGTATCAGCCAGCCTCAGTGGAGGG  
AGCTCAGTGACCTGAGTCTGCTCGCCAAATCTGCCAGACCGTGGGGTACCCCTGTGTGGTGCAGCCCTCCTATG  
TGCTGAGCGGTGCTGCTATGAATGTGGCTTACACGGATGGAGACCTGGAGCGCTTCTGAGCAGCGCAGCAGCCG  
TCTCAAAGAGCATCCCGTGGTCTCTCCAAGTTCAATCCAGGAGGCTAAGGAGATTGACGTGGATGCCGTGGCCT  
CTGATGGTGTGGTGGCAGCCATCGCCATCTCTGAGCATGTGGAGAATGCAGGTGTGCATTAGGTGATGCGACGC  
TGGTGACCCCCCACAGATATCACTGCCAAAACCTGGAGCGGATCAAAGCCATTGTGCATGCTGTGGGCCAGG

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**FIGURE 692B**

AGCTACAGGTCACAGGACCCTTCAATCTGCAGCTCATTGCCAAGGATGACCAGCTGAAAGTTATTGAATGCAACG  
TACGTGTCTCTCGCTCCTTCCCCTTCGTTTCCAAGACACTGGGTGTGGACCTAGTAGCCTTGCCACGCGGGTCA  
TCATGGGGGAAGAAGTGAACCTGTGGGGCTAATGACTGGTTCTGGAGTCGTGGGAGTAAAGGTGCCTCAGTTCT  
CCTTCTCCCGCTTGGCGGGTGTGACGTGGTGTGGGTGTGAAATGACCAGTACTGGGGAGGTGGCCGGCCTTG  
GGGAGAGCCGCTGTGAGGCATACCTCAAGGCCATGCTAAGCACTGGCTTTAAGATCCCCAAGAAGAATATCCTGC  
TGACCATTGGCAGCTATAAGAACAAAAGCGAGCTGCTCCCACTGTGCGGCTACTGGAGAGCCTGGGCTACAGCC  
TCTATGCCAGTCTCGGCACAGCTGACTTCTACACTGAGCATGGCGTCAAGGTAACAGCTGTGGACTGGCACTTTG  
AGGAGGCTGTGGATGGTGAGTGCCACCACAGCGGAGCATCCTGGAGCAGCTAGCTGAGAAAACTTTGAGCTGG  
TGATTAACCTGTCAATGCGTGGAGCTGGGGGCCGGCTCTCTTTCCTTTGTACCAAGGGCTACCGCACCCGAC  
GCTTGGCCGCTGACTTCTCCGTGCCCTAATCATCGATATCAAGTGCACCAACTCTTTGTGGAGGCCCTAGGCC  
AGATCGGGCCAGCCCCCTCTTTGAAGGTGCATGTTGACTGTATGACCTCCCAAAGCTTGTGCGACTGCCGGGAT  
TGATTGATGTCCATGTGCACCTGCGGGAACAGGTGGGACACATAAGGAGGACTTTGCTTCAGGCACAGCCGCTG  
CCCTGGCTGGGGTATCACCATGGTGTGTGCCATGCCTAATACCGGCCCCCATCATTGACGCCCTGCTCTGG  
CCCTGGCCCAAGCTGGCAGAGGCTGGCGCCGGTGCAGCTTTGCGCTATTCTTGGGGCCTCGTCTGAAAATG  
CAGGAACCTTGGGCACCGTGGCCGGGTCTGCAGCCGGGCTGAAGCTTTACCTCAATGAGACCTTCTCTGAGCTGC  
GGCTGGACAGCGTGTCTCAGTGGATGGAGCATTTGAGACATGGCCCTCCACCTCCCCATTGTGGCTCACGCAG  
AGCAGCAAACCGTGGCTGCTGTCTCATGGTGGCTCAGCTCACTCAGCGCTCAGTGCACATATGTACGTGGCAC  
GGAAGGAGGAGATCCTGCTAATTAAGCTGCAAAGCGAGGCGCTTGCCAGTGACCTGCGAGGTGGCTCCCCACC  
ACCTGTTCTAAGCCATGATGACCTGGAGCGCTGGGGCCTGGGAAGGGGAGGTCCGGCCTGAGCTTGCTCCC  
GCCAGGATGTGGAAGCCCTGTGGGAGAACATGGCTGTCTCATCTGCTTTGCCTCAGACCATGCTCCCCATACCT  
TGGAGGAGAAGTGTGGGTCCAGGCCCCACCTGGGTTCCAGGGTTAGAGACCATGCTGCCACTACTCCTGACGG  
CTGTAAGCGAGGGCCGGCTCAGCCTGGACGACCTGCTGCAGCGATTGCACCACAATCCTCGGCGCATCTTTCACC  
TGCCCCCGCAGGAGGACACCTATGTGGAGGTGGATCTGGAGCATGAGTGGACAATTTCCAGCCACATGCCCTTCT  
CCAAGGCCCACTGGACACCTTTTGAAGGGCAGAAAGTGAAGGGCACCGTCCGCCGTGTGGTCTGCGAGGGGAGG  
TTGCCTATATCGATGGGCAGGTCTGGTACCCCGGGCTATGGACAGGATGTACGGAAGTGGCCACAGGGGGCTG  
TTCCTCAGCTCCACCCCTCAGCCCTGCCACTAGTGAGATGACCACGACACCTGAAAGACCCCGCGTGGCATCC  
CAGGGCTTCTGATGGCCGCTTCCATCTGCGGCCCGAATCCATCGAGCCTCCGACCCAGGTTTGCCAGCTGAGG  
AGCCAAAGGAGAAGTCTCTCGGAAGGTAGCCGAGCCAGAGCTGATGGGAACCCCTGATGGCACCTGCTACCCTC  
CACCACAGTACCAGACAGGCATCTCCCCAGAACCTGGGGACCCCTGGCTTGTGACCCCCAGACCTCACCCC  
TGCTGCACTCATTAGTGGGCCAACATATCCTGTCCGTCCAGCAGTTCACCAAGGATCAGATGTCTCACCTGTTCA  
ATGTGGCACACACACTGCGTATGATGGTGCAGAAGGAGCGGAGCCTCGACATCCTGAAGGGGAAGGTATGGCCT  
CCATGTTCTATGAAGTGAGCACACGACCAGCAGCTCCTTTGCAGCAGCCATGGCCCGGCTGGGAGGTGCTGTGC  
TCAGCTTCTCGGAAGCCACATCGTCCGTCCAGAAGGGCGAATCCCTGGCTGACTCCGTGCAGACCATGAGCTGCT  
ATGCCGACGTGCTGCTCCGGCACCCCGAGCCTGGAGCAGTGGAGCTGGCCGCCAAGCACTGCCGGAGGCCAG  
TGATCAATGCTGGGGATGGGGTCGGAGAGCACCCACCCAGGCCCTGCTGGACATCTTACCATCCGTGAGGAGC  
TGGGAACCTGTCAATGGCATGACGATCAGCATGGTGGGTGACCTGAAGCACGGACGCACAGTACATTCCCTGGCCT  
GCCTGCTCACCAGTATCGTGTGAGCCTGCGCTACGTGGCACCTCCCAGCCTGCGCATGCCACCCACTGTGCGGG  
CCTTCGTGGCCTCCCGCGGCACCAAGCAGGAGGAATTCGAGAGCATTGAGGAGGCGCTGCCTGACACTGATGTGC  
TCTACATGACTCGAATCCAGAAGGAACGATTTGGCTCTACCCAGGAGTACGAAGCTTGCTTTGGTCAAGTTCATCC  
TCACTCCCCACATCATGACCCGGGCCAAGAAGAAGATGGTGGTGTGACCCGATGCCCCGTGTCAACGAGATAA  
GCGTGAAGTGGACTCGGATCCCCGCGCAGCCTACTTCCGCCAGGCTGAGAACGGCATGTACATCCGATGGCTC  
TGTTAGCCACCGTGTGGGCCGTTTCTAGGGCCTGGCTTCTCAGCCTCTTCTCTTTAGGCCAGCTGCTGGGC  
AAGGAATTCCAGTGCCTCCTACGGGGGCAGCACACTTAGATATCCTGGACATCCAGATTGCTCAGATGTGCTGA  
CCACACTTCAGGCTCTGGACTGGAGCTCTCTGGCATGGGGTGGGGCCTCAGATGCTGGGGCCAGCTGTCCCCA  
TCTTCATTCTGCACCTTAAACCTGTACAGTCATTTTCTACTGACTTAATAAACAGCCGAGCTGTCCCTTG

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**FIGURE 693**

MAALVLEDGSVLRGQPFGAAVSTAGEVVFQTMVGYPEALTDPSYKAQILVLTYPPLIGNYGIPPEMDEFGLCKW  
FESSGIHVAALVVGECPTPSHWSATRTLHEWLQQHGIPGLQGVDTRELTKKLREQGSLLGKLVQNGTEPSSLPF  
LDPNARPLVPEVSIKIPRVFNTGGAPRIALDCGLKYNQIRCLCQRGAEVTVVPWDHALDSQEYEGFLFSLNGPGD  
PASYPVSVVSTLSRVLSEPNRPVFGICLGHQLLALAIGAKTYKMRYGNRGHNQPCLLVGSGRCFLTSONHGFAVE  
TDSLAPADWAPLFTNANDGSNEGIVHNSLPFFSVQFHPEHQAGPSDMELLFDIFLETVKEATAGNPGGQTVRERLT  
ERLCPPGIPTPGSGLPPPRKVLILGSGGLSIGQAGEFDYSGSQAICALKEENIQTLINPNIAIVQTSQGLADKV  
YFLPITPHYVTQVIRNERPDGVLLTFGGQTALNCGVELTKAGVLARYGVRVLGTPVETIELTEDRRFAAARMAEI  
GEHVAPSEAANSLEQAQAAERLGPVLRVRAAFALGGLSGGFASNREELSALVAPAFAHTSQVLVDKSLKGWKEI  
EYEVVRDAYGNCVTVCNMENLDPLGIHTGESIVVAPSQTINDREYQLLRQTAIKVTQHLGIVGECNVQYALNPES  
EQYYIIIEVNARLSRSSALASKATGYPLAYVAAKLALGIPLPELRNSVTGGTAAFEPSVDYCVVKIPRWDLSKFLR  
VSTKIGSCMKSVGEVMGIGRSFEEAFQKALRMVDENCVGFDHTVKPVSDMELETPTDKRIFVVAALWAGYSVDR  
LYELTRIDRWFLHRMKRIIAHAQLEQHRGQPLPPDLLQQAACKLGFSDKQIALAVLSTELAVRKLQELGICPAV  
KQIDTVAAEWPAQTNYLYLTYWGTTHDLTFRTPHVLVLSGSGVYRIGSSVEFDWCAVGCIQQLRKMGYKTIMVNYN  
PETVSTDYDMCDRLYFDEISFEVMDIYELENPEGVILSMGGQLPNNMAMALHRQQCRVLGTSPEAIDSAENRFK  
FSRLLDITIGISQPQWRELSDESARQFCQTVGYPCVVRPSYVLSGAAMNVAYTDGDLERFLSSAAAVSKEHPVVI  
SKFIEAKEIDVDAVASDGVVAAIAISEHVENAGVHSGDATLVTPPDITAKTLERIKAIHVAVGQELQVTGPFN  
LQLIAKDDQLKVIENVRVRSRFPFVSKTLGVDLVALATRVIMGEEVEPVGLMTGSGVVGKVPQFSFSLAGAD  
VVLGVEMTSTGEVAGFGESRCEAYLKAMLSTGFKIPKKNILLTIGSYKNKSELLPTVRLLESLSGLYSLYASLGAD  
FYTEHGVKVTAVDWHFEEAVDGECPQRSILEQLAEKNFELVINLSMRGAGGRRLSSSVTKGYRTRRLAADFSVP  
LIIDIKCTKLFEALGQIGPAPPLKVHVDGMTSOKLVLRLPGLIDVHVHLREPGGTHKEDFASGTAAALAGGITMV  
CAMPNTRPPIIDAPALALAOKLAEGARCDFALFLGASSENAGTLGTVAGSAAGLKLYLNETFSELRLDSVVQWM  
EHFETWPSHLPPIVAHAEQQTVAAVLMVAQLTQRSVHICHVARKEEILLIKAARGLPVTCEVAPHHLFLSHDDL  
ERLGPKGGEVRPELGSRDVEALWENMAVIDCFASDHAPHTLEEKCSRPPPGFPGLTMLPLLLTAVSEGRSL  
DILLQRLHHNPRRIFHLPPQEDTYVEVDLEHEWTIPSHMPFSKAHWTPFEGQVKGTVRRVLRGEVAYIDQVL  
VPPGYGQDVRKWPQGAVPQLPPSAPATSEMTTTPRPRRGIPGLPDGRFHLPPRIHRASDPGLPAEEPKEKSSRK  
VAEPELMGTPDGTCTYPPPPVPRQASPNLGTPLHLPQTSPLHSLVGHLSVQQFTKDQMSHLFNVAHTLRMM  
VQKERSLDILKGKVMASMFYEVSTRTSSSFAMARLGGAVLSFSEATSSVQGESLADSVQTMSCYADVVLRLH  
PQPGAVELAAKHCRRPVINAGDGVGEHPTQALLDIFTIREELGTVNGMTITMVGDLKHGRTVHSLACLLTQYRVS  
LRYVAPPSLRMPPTVRAFVASRGTKQEEFESIEALPD TDVLYMTRIQKERFGSTQEYEACFGQFILT PHIMTRA  
KKKMVMHMPRVNEISVEVDSDPRAAYFRQAENGMYIRMA LLATVLRG

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**FIGURE 694**

GGAGCACCAAGGGAACGGAAAATGGCGCCTCACGGCCCGGGTAGTCTTACGACCCTGGTGCCCTGGGGCTGCCGCC  
CTGCTCCTCGCTCTGGGCGTGGAAGGGCTCTGGCGCTACCCGAGGTACAGAAGCAAGTTTGAGGTCGGGCTGAA  
GCAGGGTCACTGGCCAGCCGTGCGTCGCGCTCGCCAGCGGCTCCCCCTTCTCCTCGGCGGGCCTGCGGTTCTGAT  
TTCGTCCCTGACGCTTCCCGACCCTGCCCAGCCAGATATGCACCCAATGTCCAGGGAGCGTGCAAAATTTGTCAA  
AAGTGGCCTTTTATTGTAAACGACACGAGAGCTAATGCTGCATGCCCGTTGCTGCCTGAATCAGAAGGGCACCA  
TCTTGGGGCTGGATCTCCAGAACTGTTCTCTGGAGGACCCTGGTCCAACTTTTCATCAGGCACATACCACTGTCA  
TCATAGACCTGCAAGCAAACCCCTCAAAGGTGACTTGGCCAACACCTTCCGTGGCTTTA<sup>1</sup>CTCAGCTCCAGACTC  
TGATACTGCCACAACATGTCAACTGTCCTGGAGGAATTAATGCCTGGAATACTATCACCTCTTATATAGACAACC  
AAATCTGTCAAGGGCAAAAGAACCCTTTGCAATAACACTGGGGACCCAGAAATGTGTCCTGAGAATGGATCTTG  
TACCTGATGGTCCAGGTCTTTTGCAGTGTGTTTGTGCTGATGGTTTCCATGGATACAAGTGTATGCGCCAGGGCT  
CGTTCTCACTGCTTATGTTCTTCGGGATTCTGGGAGCCACCACTCTATCCGTCTCCATTCTGCTTTGGGCGACCC  
AGCGCCGAAAAGCCAAGACTTCA<sup>2</sup>TGA<sup>3</sup>ACTACATAGGTCTTACCATTGACCTAAGATCAATCTGAACTATCTTAGC  
CCAGTCAGGGAGCTCTGCTTCCTAGAAAGGCATCTTTCGCCAGTGGATTGCGCTCAAGGTTGAGGCCGCCATTGG  
AAGATGAAAATTGCACTCCCTTGGTGTAGACAAATACCAGTTC<sup>4</sup>CCATTGGTGTGTGCTATAATAAACACTT  
TTTCTTTTTAAAAA<sup>5</sup>AAAAAAAAAAAAAAAAAAAAAAAAA



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**FIGURE 695**

MLHARCCLNQKGITLGLDLQNCSEDPGPNFHAHTTVIIDLQANPLKGDLANTRFGFTQLQTLILPQHVNCPPG  
INAWNTITSYIDNQICQGQKNLCNNTGDPEMCPENGSCVPDGPGLQCVCADGFHGYKCMRQGSFSLMFFGILG  
ATTLSVSILLWATQRRKAKTS

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**FIGURE 696**

GGAGCACCAAGGGAACGGAAAAATGGCGCCTCACGGCCCCGGGTAGTCTTACGACCCCTGGTGCCCTGGGCTGCCGCC  
CTGCTCCTCGCTCTGGGCGTGGAAGGGCTCTGGCGCTACCCGAGATATGCACCCAATGTCCAGGGAGCGTGCAA  
AATTTGTCAAAAGTGGCCTTTTATTGTAAAACGACACGAGAGCTAATGCTGCATGCCCGTTGCTGCCTGAATCAG  
AAGGGCACCATCTTGGGGCTGGATCTCCAGAACTGTTCTCTGGAGGACCCTGGTCCAACTTTTCATCAGGCACAT  
ACCACTGTCATCATAGACCTGCAAGCAAACCCCTCAAAGGTGACTTGGCCAACACCTTCCGTGGCTTTACTCAG  
CTCCAGACTCTGATACTGCCACAACATGTCAACTGTCTGGAGGAATTAATGCCTGGAATACTATCACCTCTTAT  
ATAGACAACCAAATCTGTCAAGGGCAAAGAACCTTTGCAATAACACTGGGGACCCAGAAATGTGTCCTGAGAAT  
GGATCTTGTGTACCTGATGGTCCAGGTCTTTTGCACTGTGTTTGTGCTGATGGTTTCCATGGATACAAGTGTATG  
CGCCAGGGCTCGTTCTCACTGCTTATGTTCTTCGGGATTCTGGGAGCCACCACTCTATCCGTCTCCATTCTGCTT  
TGGGCGACCCAGCGCCGAAAAGCCAAGACTTCATGAACCTACATAGGTCTTACCATTGACCTAAGATCAATCTGAA  
CTATCTTAGCCCAGTCAGGGAGCTCTGCTTCCTAGAAAGGCATCTTTCGCCAGTGGATTCCCTCAAGGTTGAGG  
CCGCCATTGGAAGATGAAAAATTGCACTCCCTTGGTGTAGACAAATACCAGTTCCTTGGTGTGTGCTGCTATA  
ATAAACACTTTTTCTTTTAAAAA

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**FIGURE 697**

MLHARCCLNQKGTILGLDLQNCSEDPGPNFHAHTTVIIDLQANPLKGDLANFRGFTQLQTLILPQHVNCPGG  
INAWNTITSYIDNQICQGQKNLCNNTGDPEMCPENGSCVPDGPGLLQCVCADGFHGYKCMRQGSFSLMFFGILG  
ATTLSVSILLWATQRRKAKTS

**FIGURE 698**

CGCGCCTAGCCCTCTTTCCGGGAGTACTGACGACACCCCTCTTCCTTTTCCCTTTTAGTGAAGGCCCTCCCCGCTG  
CCGCGCGGGCTTCCCAGGCGGACTGACGACTCCCTCAGCCCGGTGTTCCCCGCGTCCGGACGCCGAGGTGCGGGC  
TTCGCAGAAACTCGGGGCCCTCCATCCGCCCTCAGAAAAGGGAGCGATGTTGATCTCAGGAAGCACAAAGGGACC  
TTCCTAGCTCTGACTGAACCACGGAGCTCACCTGGACAGTATCACTCCGTGGAGGAAGACTGTGAGACTGTGGC  
TGGGAAGCCAGATTGTAGCCACACATCCGCCCTGCCCTACCCCAGAGCCCTGGAGCAGCAACTGGCTGCAGATCA  
CAGACACAGTGAGGATATGAGTGTAGGGGTGAGCACCTCAGCCCCCTCTTTCCCAACCTCGGGCACAAGCGTGGG  
CATGTCTACCTTCTCCATCATGGACTATGTGGTGTTTCGTCTGCTGCTGGTCTCTCTCTCTTGGCATTGGGCTCTA  
CCATGCTTGCTGTGGCTGGGGCCGGCATACTGTTGGTGAGCTGCTGATGGCGGACCGCAAAATGGGCTGCCTTCC  
GGTGGCACTGTCCCTGCTGGCCACCTTCCAGTCAGCCGTGGCCATCTGGGTGTGCCGTGAGAGATCTACCGATT  
TGGGACCCAATATTGGTTTCTGGGCTGCTGCTACTTTCTGGGGCTGCTGATACCTGCACACATCTTCATCCCCGT  
TTTCTACCGCCTGCATCTCACCAGTGCCATGAGTACCTGGAGCTTCGATTCAATAAACTGTGCGAGTGTGTGG  
AACTGTGACCTTCATCTTTCAGATGGTGATCTACATGGGAGTTGTGCTCTATGCTCCGTCAATTGGCTCTCAATGC  
AGTGACTGGCTTTGATCTGTGGCTGTCCGTGCTGGCCCTGGGCATTGTCTGTACCGTCTATACAGCTCTGGGTGG  
GCTGAAGGCCGTGATCTGGACAGATGTGTTCCAGACACTGGTCATGTTCTCGGGCAGCTGGCAGTTATCATCGT  
GGGGTCAGCCAAGGTGGGCGGCTTGGGGCGTGTGTGGGCCGTGGCTTCCAGCACGGCCGCATCTCTGGGTTTGA  
GCTGGATCCAGACCCCTTTGTGCGGCACACCTTCTGGACCTTGGCCTTGGGGGTGTCTTCATGATGCTCTCCTT  
ATACGGGGTGAACAGGCTCAGGTGCAGCGGTACCTCAGTTCGCGCACGGAGAAGGCTGCTGTGCTCTCCTGTTA  
TGCAGTGTTCCCTTCCAGCAGGTGTCCCTCTGCGTGGGCTGCCTCATTGGCCTGGTCATGTTTCGCGTATTACCA  
GGAGTATCCCATGAGCATTGAGCAGGCTCAGGCAGCCCAGACCAGTTCGTCCTGTACTTTGTGATGGATCTCCT  
GAAGGGCTGCCAGGCTGCCAGGGCTCTTCATTGCCTGCCTCTTCAGCGCTCTCTCAGCACTATATCCTCTGC  
TTTTAATTCAATTGGCAACTGTTACGATGGAAGACCTGATTTCGACCTTGGTTCCCTGAGTTCTCTGAAGCCCGGGC  
CATCATGCTTTCAGAGGCCTTGCCTTTGGCTATGGGCTGCTTTGTCTAGGAATGGCCTATATTTCTCCCAGAT  
GGGACCTGTGCTGCAGGCAGCAATCAGCATCTTTGGCATGGTTGGGGGACCGCTGCTGGGACTCTTCTGCCTTGG  
AATGTTCTTTCCATGTGCTAACCTCCTGGTGCTGTTGTGGGCCTGTTGGCTGGGCTCGTCATGGCCTTCTGGAT  
TGGCATCGGGAGCATCGTGACCAGCATGGGCTTCAGCATGCCACCCTCTCCCTCTAATGGGTCCAGCTTCTCCCT  
GCCACCAATCTAACCGTTGCCACTGTGACCACACTGATGCCCTTGACTACCTTCTCCAAGCCCACAGGGCTGCA  
GCGGTTCTATTCTTGTCTTACTTATGGTACAGTGCTCACAACTCCACCACAGTGATTGTGGTGGGCCTGATTGT  
CAGTCTACTCACTGGGAGAATGCGAGGCCGGTCCCTGAACCCTGCAACCATTACCCAGTGTTGCCAAAGCTCCT  
GTCCCTCCTTCCGTTGTCTGTGCTGAGAGCGGCTCCACTGCAGGAGCTACGGCCAGGACCACCTCGACACTGGCCT  
GTTTCTGAGAAGCCGAGGAATGGTGIGCTGGGGGACAGCAGAGACAAGGAGGCCATGGCCCTGGATGGCACAGC  
CTATCAGGGGAGCAGCTCCACCTGCATCCTCCAGGAGACCTCCCTGTGATGTTGACTCAGGACCCCGCCTCTGTC  
CTCACTGTGCCAGGCCATAGCCAGAGGCCACCCTGTAGTACAGGGATGAGTCTTGGTGTGTTCTGCAAGGACAGG  
CCTGGATGATCTAGCTCATACAAAGGACCTTGTCTGAGAGGTTCTTGCCTGCAGGAGAAGCTGTACATCTCA  
AGCATGTGAGGCACCGTTTTTCTCGTCGCTTGCCAATCTGTTTTTAAAGGATCAGGCTCGTAGGGAGCAGGATC  
ATGCCAGAAATAGGGATGGAAGTGCATCCTCTGGGAAAAGATAATGGCTTCTGATTCAACATAGCCATAGTCCT  
TTGAAGTAAGTGGCTAGAAACAGCACTCTGTTTATAATTGCCCCAGGGCCTGATTCAGGACTGACTCTCCACCAT  
AAAACCTGGAAGCTGCTTCCCCTGTAGTCCCCATTTTCAGTACAGCTTCTGCCAGCCACAGTGAGCCCCATTATTA  
CTTTCAGATTGTCTGTGACACTCAAGCCCTCTCATTTTTTACTGTCTACCTCCATTCTGAAGAGGGAGGTTTTG  
GTGTCCCTGGTCCCTGTGGGAATAGAAGATCCATTGTCTTTGTGTAGAGCAAGCACGTTTTCCACCTCACTGTCT  
CCATCTCCACCTCTGAGATGGACACTTAAGAGACGGGGCAAATGTGGATCCAAGAAACCAGGGCCATGACCAGG  
TCCACTGTGGAGCAGCCATCTATCTACCTGACTCCTGAGCCAGGCTGCCGTGGTGTCAATTTCTGTCTATCCGTGCT  
CTGTTTCTTTTGGAGTTTCTCTCCACATTATCTTTGTTCTCGGGGAATAAAACCTACCATTGGACCTAAAAAA  
AAAAAAAAAAAAA

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**FIGURE 699**

MSVGVSTSAPLSPTSGTSVGMSTFSIMDYVVFVLLLVLSLAIGLYHACRGWGRHTVGELLMADRKMGCPLPVALSL  
LATFQSAVAILGVPSEIYRFGTQYWFLGCCYFLGLLIPAHIFIPVFYRLHLTSAYEYELRNFNKTVRVCGTVTFI  
FQMVIYMGVVLYAPSLALNAVTFGDLWLSVLALGIVCTVYTALGGLKAVIWTDFQTLVMFLGQLAVIIVGSAKV  
GGLGRVWAVASQHGRI SGFELDPDFVRHTFWTLAFGGVFMMLSLYGVNQAVQVQRYLSSRTEKAAVLSCYAVFPF  
QQVSLCVGCLIGLVMFAYYQEYPMSIQQAQAAPDQFVLYFVMDLLKGLPGLPGLFIACLFSGSLSTISSAFNSLA  
TVT MEDLIRPWPEFSEARAIMLSRGLAFGYGLLCLGMAYISSQMGPVLQAAISIFGMVGGPLLGLFCLGMFFPC  
ANPPGAVVGLLAGLVMAFWIGIGSIVTSMGFSMPPSPSNGSSFSLPTNLTVATVTTLMPLTTFSKPTGLQRFYSL  
SYLWYSAHNSTTVIVVGLIVSLLTGRMRGRSLNPATYVLPKLLSLLPLSCQKRLHCRSYGQDHLDTGLFPEKP  
RNGVLGDSRDKEAMALDGTAYQGSSSTCILQETSL

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**FIGURE 700**

GCCTGCGCGGAGGGAGCCGCGAGACAGGTGCGCATGCGCAGTGCGCGTCTGCGAGACCGACTTGGACGGAGCCGA  
GCTGAGGCTCGGCTTCCTGCTGATGGTCAGGGTTTTGGCAACTCCCCGGTGTGAGAGGGGTAGGGAGTGCTCCCCG  
GCGGCGACGGGGCCGAGTTCACAGCCGCCGGGGCAGTAGTCGAAGGCCCGGCGCGGCATGTCCTGGGTGCCGCG  
GTGCGGGCAGTGAACGCGCGCCGGGGCGGGATGGGCCGGCGCCGGGCGCCAGAGCTGTACCGGGCTCCGTTCCTCGT  
TGTACGCGCTTCAGGTCGACCCAGCACTGGGCTGCTCATCGCTGCGGGCGGAGGAGGCGCCGCCAAGACAGGCA  
TAAAGAATGGCGTGCACTTTCTGCAGCTAGAGCTGATTAATGGGCGCTTGAGTGCCTCCTTGCTGCACTCCCATG  
ACACAGAGACACGGGGCCACCATGAACTTGGCACTGGCTGGTGACATCCTTGCTGCAGGGCAGGATGCCCACTGTC  
AGCTCCTGCGCTTCAGGCACATCAACAGCAGGGCAACAAGGCAGAGAAGGCCGGTTCCAAGGAGCAGGGGCCTC  
GACAAAGGAAGGGAGCAGCCCCAGCAGAGAAGAAATGTGGAGCGGAAACCCAGCACAGGGGGCTAGAACTCAGGG  
TAGAGAATTTGCAGGCGGTGCAGACAGACTTTAGCTCCGATCCACTGCAGAAAGTTGTGTGCTTCAACCACGATA  
ATACCCTGCTTGCCACTGGAGGAACAGATGGCTACGTCCGTGTCTGGAAGGTGCCAGCCTGGAGAAGGTTCTGG  
AGTTCAAAGCCCACGAAGGGGAGATTGAAGACCTGGCTTTAGGGCCTGATGGCAAGTTGGTAACCGTGGGCGGG  
ACCTTAAGGCCTCTGTGTGGCAGAAGGATCAGCTGGTGACACAGCTGCACTGGCAAGAAAATGGACCCACCTTTT  
CCAGCACACCTTACCCTACAGGCTGCAGGTTTGGGCAGGTTCCAGACCAGCCTGCTGCGCTGCGACTCTTCA  
CAGTGCAAATTTCCCAACAAGCGCCTGCGCCAGCCCCCTCCCTGCTACCTCACAGCCTGGGATGGCTCCAACTTCT  
TGCCCCCTTCGGACCAAGTCCTGTGGCCATGAAGTCGCTCCTGCTCGATGTCAGTGAATCCGGCACCTTCCTAG  
GCCTGGGCACAGTCACTGGCTCTGTTGCCATCTACATAGCTTTCTCTCTCCAGTGCCTCTACTACGTGAGGGAGG  
CCCATGGCATTGTGGTGACGGATGTGGCCTTTCTACCTGAGAAGGGTCGTGGTCCAGAGCTCCTTGGGTCCCATG  
AAACTGCCCTGTTCTCTGTGGCTGTGGACAGTCGTTGCCAGCTGCATCTGTTGCCCTCACGGCGGAGTGTTCTGT  
TGTGGCTCCTGCTCCTGCTGTGTGTGCGGGCTTATTATTGTGACCATCCTGCTGCTCCAGAGTGCCCTTCCAGGTT  
TCCTTTAGCTTCCCTGCTTCCTGGGAATCAGGAGCCTGCACACTGCCATCTCTAGAGCAGAGTGGAGGCCTGGAC  
TCCCTTTGCTCACTCCATTGCGGTCCACAGCTGAGGTTGCCGCTGACAAGATGAATGGGCACTGCCTGCCCTTCT  
AGTGAAAAGGCTTGCTATGGCCCTGTGTGACTCCAGGTCCCAGGAACCTTGCCCTTCGTCACTCTGTGGATCCATC  
CAGAACAGCGGTATCTGAAGCCCAGGCCATACTCCCTGCCTCCTTTCTTCTGCCTACCAGAGGCTCCAGAGTTGA  
GCTTGTCCTTATCTAGAAACATGTGAAGATGCCCAAGAGCCTGGAGGCACTGCTGTCTTCTGCAAGAACAGTT  
TCTCCTCCTCCCTCAGCCTTGTGGCCAGTTCTCTTACATGAAGCCCTGGCATTGTGCTGGGGAAGGGACTGG  
CCTGGTACTTGCTGTAGGGCAGGAAGGGGCAAAAGGAAGACTTGGGTAGTAATCTGGGGGTTGAGATGGGTAGC  
ACTAAGCCAGCTGGCCTAAAGATGCAATAAGTTCTAGGTAGTCTACCCTTACCTTGAGGAATGGGAAAATGAAC  
CTCAGCCCATTAGGCAGGAAAAGTTGATATTTAATAACAAGGAAAGAGTGAAGTGAAGACCCC

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**FIGURE 701**

GTAGCCTCATGGGAAGAGAAGCAGATCCTGTGCGTGGGGCTAGTGGTGCTGGACGTCATCAGCCTGGTGGACAAGT  
ACCCTAAGGAGGACTCGGAGATAAGGTGTTTGTCCCAGAGATGGCAGCGCGGAGGCAACGCGTCCAACCTCCTGCA  
CCGTTCTCTCCCTGCTCGGAGCCCCCTGTGCCTTCATGGGCTCAATGGCTCCTGGCCATGTTGCTGATTTTGTCC  
TGGATGACCTCCGCCGCTATTCTGTGGACCTACGCTACACAGTCTTTCAGACCACAGGCTCCGTCCCCATCGCCA  
CGGTCAATCATCAACGAGGCCAGTGGTAGCCGCACCATCCTATACTATGACAGGAGCCTGCCAGATGTGTCTGCTA  
CAGACTTTGAGAAGGTTGATCTGACCCAGTTCAAGTGGATCCACATTGAGGGCCGGAACGCATCGGAGCAGGTGA  
AGATGCTGCAGCGGATAGACGCACACAACACCAGGCAGCCTCCAGAGCAGAAGATCCGGGTGTCCGTGGAGGTGG  
AGAAGCCACGAGAGGAGCTCTTCAGCTGTTTGGCTACGGAGACGTTGGTGTTCAGCAAAGATGTGGCCAAGC  
ACTTGGGGTTCCAGTCAGCAGAGGAAGCCTTGAGGGGCTTGTATGGTCGTGTAGGAAAGGGGCTGTGCTTGTCT  
GTGCCTGGGCTGAGGAGGGCGCCGACGCCCTGGGCCCTGATGGCAAATTGCTCCACTCGGATGCTTTCCCGCCAC  
CCCGCGTGGTGGATACACTGGGAGCTGGAGACACCTTCAATGCCTCCGTCACTTCAGCCTCTCCAGGGGAGGA  
GCGTGCAGGAAGCACTGAGATTCGGGTGCCAGGTGGCCGGCAAGAAGTGTGGCCTGCAGGGCTTTGATGGCATCG  
TGTGAGAGCAGGTGCCGGCTCCTCACACACCATGGAGACTACCATTGCGGCTGCATCGCCTTCTCCCTCCATCC  
AGCCTGGCGTCCAGGTTGCCCTGTTTCAGGGGACAGATGCAAGCTGTGGGGAGGACTCTGCCTGTGTCTGTGTTT  
CCCACAGGGAGAGGCTCTGGGGGGATGGCTGGGGGATGCAGAGCCTCAGAGCAAATAAATCTTCTCAGAGCCAG  
CTTCTCCTCTCAATGTCTGAACTGCTCTGGCTGGGCATTCTGAGGCTCTGACTCTTCGATCCTCCCTCTTTGTG  
TCCATTCCCAAATTAACCTCTCCGCCCAGGCCAGAGGAGGGGCTGCCTGGGCTAGAGCAGCGAGAAGTGCCCT  
GGGCTTGCCACCAGCTCTGCCCTGGCTGGGGAGGACACTCGGTGCCCCACACCCAGTGAACCTGCCAAAGAAACC  
GTGAGAGCTCTTCGGGGCCCTGCGTTGTGCAGACTCTATTCCCACAGCTCAGAAGCTGGGAGTCCACACCGCTGA  
GCTGAAGTGCAGGCCAGTGGGGGGCAGGGGTGCGCCTCCTCTGCCCTGCCACCAGCCTGTGATTTGATGGGGT  
CTTCATTGTCCAGAAATACCTCCTCCGCTGACTGCCCCAGAGCCTGAAAGTCTCACCTTGGAGCCCACTTGG  
AATTAAGGGCGTGCCTCAGCCACAAATGTGACCCAGGATACAGAGTGTGCTGTCTCAGGGAGGTCCGATCTGG  
AACACATATTGGAATTGGGGCCAACTCCAATATAGGGTGGGTAAGGCCTTATAATGTAAAGAGCATATAATGTAA  
AGGGCTTTAGAGTGAGACAGACCTGGATTCAAATCTGCCATTTAATTAGCTGCATATCACCTTAGGGTACAGCAC  
TTAACGCAATCTGCCTCAATTTCTTCATCTGTCAAATGGAACCAATTCTGCTTGGCTACAGAATTATTGTGAGGA  
TAAAAATCATATATAAAAAAAAAA

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**FIGURE 702**

MEEKQILCVGLVLDVISLVDKYPKEDSEIRCLSQRWQRGGNASNSCTVLSLLGAPCAFMGSMAPGHVADFVLDD  
LRRYSVDLRYTIVFQTTGSVP IATVIINEASGSRTILYYDRSLPDVSATDFEKVDLTQFKWIHIEGRNASEQVKML  
QRIDAHNTRQPPEQKIRVSVEVEKPREELFQLFGYGDVVFVSKDVAKHLGFQSAEEALRGLYGRVRKGAVLVCAW  
AEEGADALGPDGKLLHSDAFPPPRVVDTLGAGDTFNASVIFSLSQGRSVQEALRFGCQVAGKKCGLOGFDGIV



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**FIGURE 703**

GTAGCCTCATGGAAGAGAAGCAGATCCTGTGCGTGGGGCTAGTGGTGCTGGACGTCATCAGCCTGGTGGACAAGT  
ACCCTAAGGAGGACTCGGAGATAAGGTGTTTGTCCCAGAGATGGCAGCGCGGAGGCAACGCGTCCAACCTCCTGCA  
CCGTTCTCTCCCTGCTCGGAGCCCCCTGTGCCTTCATGGGCTCAATGGCTCCTGGCCATGTTGCTGACTTCCTGG  
TGGCCGACTTCAGGCGGCGGGGCGTGGACGTGTCTCAGGTGGCCTGGCAGAGCAAGGGGGACACCCCCAGCTCCT  
GCTGCATCATCAACAACCTCCAATGGCAACCGTACCATTGTGCTCCATGACACGAGCCTGCCAGATGTGTCTGCTA  
CAGACTTTGAGAAGGTTGATCTGACCCAGTTCAAGTGGATCCACATTGAGGGCCGGAACGCATCGGAGCAGGTGA  
AGATGCTGCAGCGGATAGACGCACACAACACCAGGCAGCCTCCAGAGCAGAAGATCCGGGTGTCCGTGGAGGTGG  
AGAAGCCACGAGAGGAGCTCTTCCAGCTGTTTGGCTACGGAGACGTGGTGTGTTGTCAGCAAAGATGTGGCCAAGC  
ACTTGGGGTTCCAGTCAAGCAGAGGAAGCCTTGAGGGGCTGTATGGTCTGTGTGAGGAAAGGGGCTGTGCTTGTCT  
GTGCTTGGGCTGAGGAGGGCGCCGACGCCCTGGGCCCCTGATGGCAAATTGCTCCACTCGGATGCTTTCCCGCCAC  
CCCGCGTGGTGGATACACTGGGAGCTGGAGACACCTTCAATGCCTCCGTCATCTTCAGCCTCTCCAGGGGAGGA  
GCGTGCAGGAAGCACTGAGATTCCGGTGCCAGGTGGCCGGCAAGAAGTGTGGCCTGCAGGGCTTTGATGGCATCG  
TGTGAGAGCAGGTGCCGGCTCCTCACACACCATGGAGACTACCATTGCGGCTGCATCGCCTTCTCCCCTCCATCC  
AGCCTGGCGTCCAGGTTGCCCTGTTTCAAGGGACAGATGCAAGCTGTGGGGAGGACTCTGCCTGTGTCTGTGTTT  
CCCACAGGGAGAGGCTCTGGGGGGATGGCTGGGGGGATGCAGAGCCTCAGAGCAAATAAATCTTCTCAGAGCCAG  
CTTCTCCTCTCAATGCTGAAGTGTCTGGCTGGGCATTCTGAGGCTCTGACTCTTCGATCCTCCCTCTTTGTG  
TCCATTCCCCAAATTAACCTCTCCGCCCAGGCCAGAGGAGGGGCTGCCTGGGCTAGAGCAGCGAGAAGTGCCCT  
GGGCTTGCCACCAGCTCTGCCCTGGCTGGGGAGGACACTCGGTGCCCCACACCCAGTGAACCTGCCAAAGAAACC  
GTGAGAGCTCTTCGGGGCCCTGCGTTGTGCAGACTCTATTCCACAGCTCAGAAGCTGGGAGTCCACACCGCTGA  
GCTGAAGTGCAGGCCAGTGGGGGGCAGGGGTGCGCCTCCTCTGCCCTGCCACCAGCCTGTGATTGATGGGGT  
CTTCATTGTCCAGAAATACCTCCTCCCGCTGACTGCCCCAGAGCCTGAAAGTCTCACCTTGGAGCCCACCTTGG  
AATTAAGGGCGTGCCTCAGCCACAAATGTGACCCAGGATACAGAGTGTGCTGTCCTCAGGGAGGTCCGATCTGG  
AACACATATTGGAATTGGGGCCAACTCCAATATAGGGTGGGTAAGGCCTTATAATGTAAAGAGCATATAATGTAA  
AGGGCTTTAGAGTGAGACAGACCTGGATTCAAATCTGCCATTTAATTAGCTGCATATCACCTTAGGGTACAGCAC  
TTAACGCAATCTGCCTCAATTCTTCATCTGTCAAATGGAACCAATTCTGCTTGGCTACAGAATTATTGTGAGGA  
TAAAAATCATATATAAAAAAAAAA

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**FIGURE 704**

MEEKQILCVGLVVLDVISLVDKYPKEDSEIRCLSQRWQRGGNASNSCTVLSLLGAPCAFMGSMAPGHVADFLVAD  
FRRRGVDVSQVAWQSKGDTTPSSCCIINNSNGNRTIVLHDTSLPDVSATDFEKVDLTQFKWIHIEGRNASEQVKML  
QRIDAHNTRQPPEQKIRVSVEVEKPREELFQLFGYGDVVFVSKDVAKHLGFQSAAEEALRGLYGRVRKGAVLVCAW  
AEEGADALGPDGKLLHSDAFPPRVVDTLGAGDTFNASVIFSLSQGRSVQEALRFGCQVAGKKCGLQGFDGIV

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**FIGURE 705**

ATGGGCCCCCGCACCCCTCTGGAGCTGCTACCTCTGCTGCCTGCTGACGGCAGCTGCAGGGGCGCCAGCTACCCCT  
CCTCGAGGTTTCAGCCTCTACACAGGTTCCAGTGGGGCCCTCAGCCCCGGGGGGCCCCAGGCCAGATTGCCCCC  
CGGCCAGCCAGCCGCCACAGGAAGTGGTGTGCCTACGTGGTGACCCGGACAGTGAGCTGTGTCTTGAGGATGGA  
GTGGAGACATATGTCAAGTACCAGCCTTGTGCCTGGGGCCAGCCCCAGTGTCCCCAAAGCATCATGTACCGCCGC  
TTCCTCCGCCCTCGCTACCGTGTGGCCTACAAGACAGTGACCGACATGGAGTGGAGGTGCTGTACAGGGTTATGGG  
GGCGATGACTGTGTGAGAGTCCCGCTCCAGCGCTGGGGCCTGCGTCTTCCACACCACGGCCCCCTGGCCCCGCCT  
GCCCCGCCCAACCTCTCTGGCTCCAGTGCAGGCAGCCCCCTCAGTGGACTGGGGGGAGAAGGTCTGGGGAGTCA  
GAGAAGGTGCAGCAGCTGGAGGAACAGGTGCAGAGCCTGACCAAGGAGCTGCAAGGCTGCGGGGCGTCTGCAA  
GGACTGAGCGGGCGCCTGGCAGAGGATGTGCAGAGGGCTGTGGAGACGGCCTTCAACGGGAGGCAGCAGCCAGCT  
GACGCGGTGCCCCGCCCTGGGGTGCATGAAACCTCAATGAGATCCAGCACCAGCTGCAGCTCCTGGACACCCGC  
GTCTCCACCCACGACCAGGAGCTGGGTACCTCAACAACCATCATGGCGGCAGCAGCAGTGGGGGCAGCAGG  
GCCCCAGCCCCAGCCTCAGCCCCCTCCGGGGCCCCAGTGAGGAGCTGCTGCGGCAGCTGGAGCAGCGGTTGCAGGAG  
TCCTGCTCCGTGTGCCTGGCCGGGCTAGATGGCTTCCGCCGGCAGCAGCAGGAGGACAGGGAGCGGCTGCCAGCG  
ATGGAGAAGCTGCTGGCCTCGGTGGAGGAGCGGCAACGGCACCTCGCAGGGCTGGCGGTGGGGCCGACGGCCCCCT  
CAGGAATGCTGCTCTCCAGAGCTGGGCCGGCGACTGGCAGAGCTGGAGCGCAGGCTGGATGTCTGTGGCCGGCTCA  
GTGACAGTGCTGAGTGGGCGGCGAGGCACAGAGCTGGGAGGAGCCGCGGGGCAGGGAGGCCACCCCCAGGCTAC  
ACCAGCTTGGCCTCCCGCCTGTCTCGCCTGGAGGACCGCTTCAACTCCACCCTGGGGCCCTTCGGAGGAGCAGGAG  
GAGAGCTGGCCTGGGGCTCCTGGGGGGCTGAGCCACTGGCTGCCTGCTGCCCCGGGGCCGACTAGAGCAGTTGGGG  
GGGCTGTGGCCAATGTGAGCGGGGAGCTGGGGGGGCGGTTGGATCTGTTGGAGGAGCAGGTGGCAGGGGCCATG  
CAGGCATGCGGGCAGCTCTGCTCTGGGGCCCCTGGGGAGCAGGACTCTCAAGTCAGCGAGATCCTCAGTGCCTTG  
GAGCGCAGGGTGCTGGACAGTGAGGGGCAGCTGCGGCTGGTGGGCTCCGGCCTGCACACGGTGGAAGCAGCGGGG  
GAGGCCCGGCAGGCCACGCTGGAGGGATTACAAGAGGTTGTGGGCGGCTCCAGGATCGTGTGGATGCCCAGGAT  
GAGACAGCTGCAGAGTTCACTACGGCTGAATCTACTGCGGCCCGGCTAGGCCAACTGGAGGGGCTGCTGCAG  
GCCCATGGGGATGAGGGCTGTGGGGCCTGTGGCGGAGTCCAAGAGGAAGTAGGCCGCCCTTCGGGATGGTGTGGAG  
CGCTGCTCCTGCCCCCTGTTGCCCTCCTCGGGTCTGGGGCTGGTCCAGGTGTTGGGGGCCCAAGCCGTGGGGCC  
CTGGACGGCTTCAGCGTGTGTTGGGGGCAGCTCAGGCTCAGCCCTGCAGGCCCTGCAAGGAGAGCTCTCTGAGGTT  
ATTCTCAGCTTCAGCTCCCTCAATGACTCACTGAATGAGCTCCAGACCACTGTGGAGGGCCAGGGCGCTGATCTG  
GCTGACCTGGGGGCAACCAAGGACCGTATCATTCTGAGATTAAACAGGCTGCAGCAGGAGGCCACAGAGCATGCT  
ACAGAGAGTGAAGAGCGCTTCCGAGGCCTAGAGGAGGACAAGCACAGGCCGGCCAGTGCCCCAGCTTAGAGGGG  
CGATTGGGCCGTCTTGAGGGTGTCTGTGAACGGTTGGACACTGTGGCTGGGGGACTGCAGGGCCTGCGCGAGGGC  
CTTTCCAGACAGTGGCTGGGCTCTGGGCTGGGCTCCGGGAAACCAACACCACCAGCCAGATGCAGGCAGCCCTG  
CTGGAGAAGCTGGTCCGGGGACAGGCCGGCCTGGGCAGGCGGCTGGGTGCCCTTAACAGCTCCCTGCAGCTCCTG  
GAGGACCGTCTGCACCAGCTCAGCCTGAAGGACCTCACTGGGCTGCAGGAGAGGCTGGGCCCCCAGGGCCCTCCT  
CCACCAGTCCCTCAAGGGGAACAGGGAGTGGAGGGGGCACCAGGCCCTGTGCCCCAAGTGGCATTTTCAGCT  
GCTCTGAGTTGCCCCGGTCTGAACAGGCACGGTCCCCCTTCGACAGAGTCCCTGCTCAATGATGGAGGCTATTAT  
GATCCAGAGACAGGCGTGTTCACAGCGCCACTGGCTGGAGCGCTACTTGCTGAGCGCGGTGCTGACTGGGCACCGG  
CAGGAGAAAGTGGAGGCCGTGCTTCCCGCTCCAACAGGCGGTGGCCCGCGTAGACTCCGGTGGCTACGAGCCT  
GAGGGCCTGGAGAATAAGCCGGTGGCCGAGAGCCAGCCAGCCGGGACCCCTGGGCGTCTTCAGCCTCATCCTG  
CCGCTGCGAGCGCGGGACACGGTCTGCGCTCGACCTGGTCAATGGGGCAGCTGGCGCACTCGGAGGAGCCGCTCACC  
ATCTTCAGCGGGGCCCTGCTCTATGGGGACCCAGAGCTTGAACACGCGTAGACTGGGGTCCCCCGCCGACGTGTCT  
ACGTGCGGTGAAGAGACAGCGGGGCGGGGCTCCTGGGGTCTCGCCTGAGACGGGGCACCTAGCCCTGGGCGA  
GCGCCGACCCCGGGCCGACGCGCACCGCGCCAGAGCGGCTCTCCCCACGCCCGGGGCGCGCCGGCTCAGGG  
AGGCTCGGGGCGGCCCATGCAGACTTTTGGCCTGGCGCATCCCCAAGAACCCTCCAGGGCGGCGCTGCGGAG  
GAGCCGATCCTCGCACCCCTCCGCTCCCTCCACTGGCCCTCAGGTGATTCCTGGGCTCCAGGCTCCCCCGCGC  
GGGCGCCGCCACCGCCATACTAAACGATCGAGGAATAAAGACACTTGGTTTTTCT

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**FIGURE 706**

MAPRTLWSCYLCCLLTAAAGAASYPPRGFSLYTGSSGALSPGGPQAQIAPRPASRHRNWCAVVRTIVSCVLEDG  
VETYVKYQPCAWGQPQCPQSIMYRRFLRPYRVAYKTVTDMEWRCQGYGGDDCAESPAPALGPASSTPRPLARP  
ARPNLSGSSAGSPLSGLGGEGPGESEKVQQLLEEQVQSLTKELQGLRGVLQGLSGRLAEDVQRAVETAFNGRQQPA  
DAAARPGVHETLNEIQHQLQLLDTRVSTHDQELGHLNNHHGGSSSSGSRAPAPASAPPGPSEELLRQLEQRLQE  
SCSVCLAGLDGFRQQQEDRERLRAMEKLLASVEERQRHLAAGLAVGRRPPQECCSPELGRRLAELERRLDVVAGS  
VTVLSGRRGTGLGGAAGQGGHPPGYTSLASRLSRLEDNFNSTLGPSEEQEEWPAPGGLSHWLPAARGRLEQLG  
GLLANVSGELGGRLDLLEEQVAGAMQACGQLCSGAPGEQDSQVSEILSALERRVLDSEGQLRLVGSGLHTVEAAG  
EARQATLEGLQEVEVGRQLQDRVDAQDETAEEFTLRNLTAARLGQLEGLLQAHGDEGCGACGGVQEELGRIRDGVE  
RCSCPLLPPRPGGAGPGVGGPSRGPLDGFVSFGSSGSALQALQGESEVILSFSSLNDLNLQTTVEGQGADL  
ADLGATKDRIISEINRLQEQATEHATESEERFRGLEEGQAQAGQCPSLEGRGRLEGVCERLDTVAGGLQGLREG  
LSRHVAGLWAGLRETNNTSQMQAALLEKLVGGQAGLGRRLGALNSSQLLEDRLHQLSLKDLTGPAEAGPPGPP  
GLQGGPPGAGPPGSPGKDGQEGPIGPPGPQGEQGVGAPAAPVPQVAFSAALSLPRSEPGTVFPFDRVLLNDGGYY  
DPETGVFTAPLAGRYLLSAVLTGHRHEKVEAVLSRSNQGVARVDSGGYEPEGLENKPVAESQPSPGTILGVFSLIL  
PLQAGDTCVDLVMGQLAHSEEPLTIFSGALLYGDPELEHA

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**FIGURE 707**

GGCACGAGGGGACCGCGGGCGCTCGGGTGTTTTTGGGGGCCCCGGGTGGAGGGCCCCGGGTGCCGGGGCCCCAAGGTG  
CGGCCTCGCTAGCGGGAGAGGGAGCGGGATCACCGGCCCGGAGAGAGCTCTCAGGGCCAGAGCGGGGCAGGAGGA  
TGCTTTCCAGCCCCACCATGGAGCTGCGCTGTGGGGGATTGCTGTTCACTTCTCGCTTTGATTAGGGAATCTA  
GCCACGTGGAGAAGGTGGAATCTTTGTCCAGTGATGGGGAAGGGGTAGGAGGTGGGGCGTCAGCCCTGACCACT  
GGCATTGCCTCTTCCCTGACTATGAATTCAACGTGTGGACCCGACCAGACTGTGCTGAAACGGAATTTGAGAAT  
GGGAACAGGTCATGGTTCTACTTCAGCGTCCGGGGAGGAATGCCAGGAAAACCTCATCAAGATCAACATTATGAAC  
ATGAACAAGCAGAGCAAGCTGTATTCCAGGGCATGGCCCCCTTTGTGCGCACACTGCCACCCGGCCACGCTGG  
GAACGCATTGAGACCGGCCACCTTTGAGATGACAGAGACGCAGTTTGTTTATCCTTTGTTTCATCGTTTCGTG  
GAGGGCCGTGGGGCCACCACTTTCTCGCTTCTGCTACCCCTTCTCTACAGTGACTGCCAGGAACCTGCTAAAC  
CAGCTAGACCAGCGCTTTCCGGAGAACCACCTTACCCATAGCAGCCCCCTGGATACCATCTATTACCATCGGGAG  
CTCCTTTGCTATTCTCTGGATGGACTTCGTGTAGATCTGCTGACGATCACTTCTGCCATGGGCTTCGAGAAGAT  
CGAGAGCCCCGTCTAGAGCAGCTATTTCCTGATACCAGCACCCTCGACCATTCCGTTTCGAGGCAAGAGGATA  
TTCTTCTTAAGCAGTAGAGTACACCCAGGGGAGACTCCATCTAGCTTTGTCTTCAATGGCTTCTGGAATTCATC  
CTCCGACCTGATGATCCCCGGGCCAAACCCCTCCGTCGCTCTTCTGCTTTAAGCTGATTCCCATGTTGAACCCC  
GATGGTGTGGTCCGGGGACACTACCGCACAGACTCACGTGGAGTGAATCTGAACCGTCAGTACCTGAACCGTGT  
GCCGTCTGCACCCGGCCATCTATGGGGCCAAAGCTGTGCTTCTTACCACCATGTGCACCTCTCGTCTGAACCTC  
CAGAGTTCTCTGAGCACCAGCCAGTTCCTGTCTCCCTCCTGATGCTCCTGTTTCTGACCTGGAGAAAGCCAAAC  
AATCTCCAAAATGAAGCTCAGTGTGGGCACTCAGCTGACAGGCATAACGCTGAAGCCTGGAAACAAACAGAGCCA  
GCAGAACAGAAGCTCAACAGTGTGTGGATTATGCCACAACAGTCTGCGGGGCTTGAAGAGTCAAGCCCTGATACC  
ATCCCCCCCCAAGAGAGTGGCGTTGCTTACTATGTGGACCTGCATGGACATGCTTCCAAAAGGGGCTGCTTCATG  
TACGGAAACAGCTTTAGTGATGAGAGACCCAGGTGGAAAACATGCTATATCCAAAGCTCATCTCCTTGAATTCA  
GCCCACTTCGACTTCCAGGGCTGCAATTTCTCAGAGAAGAATATGTATGCCCGAGACCGTAGAGATGGCCAGTCT  
AAAGAGGGAAGCGGCCGTGTTGCAATCTACAAAGCCTCAGGGATAATCCACAGCTACACACTTGAATGCAACTAC  
AACACTGGACGCTCAGTAAACAGCATCCCTGCTGCCTGCCATGACAATGGGCGTGCCAGCCCCCTCCCCCGCCG  
GCTTTCCCCTCCAGATACACTGTGGAACATTTTGAGCAGTGGGACGAGCTATGGCCATTGCAGCCCTGGACATG  
GCGGAATGTAATCCGTGGCCCCGAATTGTACTGTGAGCAGCAGCAGCCTTACTAATCTACGGCCCTGGATGCTG  
AAACATGTACGCAACAGCCGAGGCCAAGCAGCACTCTGAATGTGGGTGTCAACAAGAAGAGGGGCTTTCGAAC  
CCACCCAAAAGTACAAATGGGTTGCCCTGTCTCCTGCTCCGAAAACACCTTGAGTCGGGCACGAAGTTTTAGCACC  
GGCACAAGTGCCGTTGTTAGCAGCAGCAGCCAAACAAATTTCCACAGATGAAGAATTCCCCAGCTTTCTTTTT  
CATGGCAGTCGGCCTGCAGGGCTGCCAGGCTTGGGCTCTAGTACCCAAAAGGTCACCCACCGGGTGCTGGGCCCC  
GTCAGAGAGCCCCGAAGCCAGGACAGGAGACGGCAGCAGCAGCAGCCTGAACCATCGTCTGTCAGGCGAGCCTCGCT  
CCATCCCCAGCTCCTACTAGTTCTGGCCAGCCTCCTCACACAAGCTGGGCTCCTGTCTACTGCTGATTTCATTC  
AACATACCAGGGAGCGATTGCTCACTCTTGTCTCTGGAGACAAACCAGAGGCTGTGATGGTAATCGGGAAAGGT  
CTGCTAGGGACTGGAGCTCGGATGCCCTGCATCAAGACTCGATTGACAGCCTGTCCGAGGAGAGTTTCCGCCAGG  
AGGGGTCCCGGATTCCCCAGGCTAGGCCAGGTTGGGCGGGGCTCACCGCCGACTCGCAGAGGGATGAAGGCT  
CTCAGGCCCCACATCCCCTACCCCCCGGACCAGGGAGAGCAGTGAGCTGGAGCTGGGATCCTGCTCTGCTACAC  
CAGGGCTGCCTCAGGCCAGGCCCCACGGCCCCGCTCTGCCCTGCCTTTTCTCCTATATCCTGTAGTCTATCTG  
ACTCCCCATCCTGGAATTGTTACAGCAGGGGTCCCTTGGGCCAACCTGAGGTTTGTGTTTGTCCCTAAATCTCCCC  
CACTGACTGTTTTCTCCCGGGTCTGATAATGCCTTTATGTTCAATCCAGGATATAGCCCCAAGATGGGGTAACA  
GTGGGAAATATGCTAGTTCCCTCCAGGCCGCTGATTCCATGTGACAGCCGTTAAGTCTTGGAAATGCCAGCCAC  
GCTGTCCAAGGCATTACAGAGTATCACCTTGAGACAGAACAAAACAGGGACCTGCCACCCCTTCCCTCCCTCCGC  
AGCACAAGATTTTGGGACCACAAAAAAGTCTATATTTTATATTGGGGGGAGGGAGTAGAAAAGCAAGCCCTT  
ATACTGGGCCCTATTCACTGGCAGCTTCTTGTTCATAGGATTAAGGAAGACTCTGAGGAAATAAAAGTTGTTTG  
GAAAAATCCAAAAAATAAAAAAAAAA

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**FIGURE 708**

MNMNKQSKLYSQGMAPFVRTLPTRPRWERIRDRPTFEMTETQFVLSFVHRFVEGRGATTFFAFICYPFSYSDCQEL  
LNQLDQRFENHPHTHSSPLDTIYYHRELLCYSLDGLRVDLLTITSCHGLREDREPRLEQLFPDTSTPRPFRFAGK  
RIFFLSSRVHPGETPSSFFVNGFLDFILRPDDPRAQTLRRLFVFKLIPMLNPDGVVRGHIYRTDSRGVNLNRQYLK  
PDAVLHPAIYGAKAVLLYHHVHSRLNSQSSSEHQPSCLPPDAPVSDLEKANNLQNEAQCGHSADRHNAEAWKQT  
EPAEQKLSVWIMPQQSAGLEESAPDTIPPKESGVAYYVDLHGASKRGCFMYGNSFSDESTQVENMLYPKLISL  
NSAHFDFQGCNFSEKNMYARDRRDQGSKEGSGRVAIYKASGIIHSYTLECNNTGRSVNSIPAACHDNGRASPPP  
PPAFPSRYTVELFEQVGRAMAIAALDMAECNPWPRIVLSEHSSLTNLRAWMLKHVRNSRGLSSTLNVGVNKKRGL  
RTPPKSHNGLPVSCSENTLSRARSFSTGTSSAGGSSSSQQNSPQMKNPSFPFHGSRPAGLPGLGSSTQKVTHRVL  
GPVREPRSQDRRQOQPLNHRPAGSLAPSPAPTSSGPASSHKLGSCLLPDSFNIPGSSCSLLSSGDKPEAVMVIG  
KGLLGTGARMPCIKTRLQTCPRRVSARRGPGFPRLGPGWAGAHRRRLAEG

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**FIGURE 709**

CCCCCCCCACTCTGGAATCCCCGCGCTGGGCGCGCTGAGGCGGCCCCCGAGCGAGCGCGCTGCAGCCGCCGCCG  
CCCCGAGCACCAGCAGCTCCGGCGCCGCGGCGAGACGGAGACGGACCGAGCCACGGGCCCGCGGCCGAGCATC  
TCGGAGGAGAACATGCTTGCCAACTCAGCCAGCGTGAGGATCCTCATCAAGGGAGGCAAGGTGGTGAACGATGAC  
TGACCCACGAGGCTGACGTCTACATCGAGAATGGCATCATCCAGCAGGTGGGCCGCGAGCTCATGATCCCTGGC  
GGGGCCAAGGTGATTGATGCCACAGGAAAAGTGGTGATCCCTGGTGGCATCGACACCAGCACCACCTTCCACCAG  
ACCTTCATGAATGCCAGTGCCTGGACGACTTCTACCATGGGACCAAGGCAGCACTCGTCGAGGCACCACCATG  
ATCATCGGCCACGTCTGCCCCGACAAGGAGACCTCCCTTGTGGACGCTTATGAGAAGTGGCAGGTCTGGCCGAC  
CCCAAGGTCTGCTGTGATTACGCCCTCCACGTGGGGATCACCTGGTGGGCACCCAAGGTGAAAGCAGAAATGGAG  
ACACTGGTGAGGGAGAAGGGTGTCAACTCGTTCCAGATGTTTCATGACCTACAAGGACCTGTACATGCTTCCGAGC  
AGTGAGCTGTACCAAGTGTGACGCTTGCAAGGACATTGGGGCAATCGCCCGCTCCATGCTGAAAATGGGGAG  
CTTGTGGCCGAGGGTGCTAAGGAGGCACTGGATTGGGGATCACAGGCCCAGAAGGAATCGAGATCAGCCGTCCA  
GAGGAGCTGGAAGCTGAAGCCACTCATCGTGTATCACCATTGCAAACAGGACTCACTGTCCAATCTACCTGGT  
AACGTGTCCAGTATCTCGGCTGGTGACGTTATCGCAGCTGCTAAGATGCAAGGGAAGGTTGTGCTGGCGGAGACC  
ACCACTGCACATGCCACGCTGACAGGCTTACACTACTACCACCAGGACTGGTCCCACGCGGTGCCTATGTACG  
GTGCCCTCCCCTGAGACTGGACACCAACACCTCAACCTACCTCATGAGCCTGCTGGCCAATGACACTCTGAACATC  
GTGGCATCAGATACCCGGCTTTCACCACAAAGCAGAAAGCTATGGGCAAGGAAGACTTCACCAAGATCCACAT  
GGAGTGAGTGGCGTGACGAGCCGATGAGCGTCATCTGGGAGAGAGGAGTGGTGGAGGAAAGATGGATGAGAAC  
CGTTTTGTGGCCGTTACAGTTCACACGAGCTAAGCTTCTGAACCTGTATCCCCGCAAGGGCCGATTATTCCC  
GGAGCCGATGCTGATGTGGTGGTGTGGGACCCAGAAGCCACAAAGACCATCTCAGCCAGCACGCAGGTCCAGGGA  
GGAGACTTCAACCTGTATGAGAACATGCGCTGCCACGGCGTGCCACTGGTCACCATCAGCCGGGGCGCGTCTGT  
TATGAGAACGGCGTCTTCATGTGCGCCGAGGGCACCCGGCAAGTCTGTCTCCCTGAGGTCTTCCCAGACACTGTC  
TACAAGAAGCTGGTCCAGAGAGAGAAGACTTTAAAGGTTAGAGGAGTGACCGCACTCCCTACCTGGGGGATGTC  
GCTGTTGTGCTGCACCTGGGAAAAAAGAGATGGGAACCCCACTCGCAGACACTCCTACCCGGCCCGTCAACCGG  
CATGGGGGATGAGGGACCTTACGAATCCAGCTTCAGCCTCTCTGGCTCTCAGATCGATGACCATGTTCCAAAG  
CGAGCTTCAGCTCGGATCCTCGCTCCTCCCGAGGCAGGTGAGTGCCATTGTTGTAAGGCATTGCCAAGCCCCC  
CGAGTGAGGACGCACCGCCGCCACAGCCGCAACTCTCCAGCCGAAGCTGCAGGGGCAGGAGAGGCTGGGCTGG  
GTGGCACACCACCCGAGGGGGGGCCCCGGGACCCAGGACCCCTCCCTATGTCTGCAAAGTGATTCACTGTGCTTC  
GAGCCAACTCTAACAGGCACCTTGAGATGTGTTCCCTCCTGCTGTAGTCCCTTCTGCTTGGCCTCGGCGGGCTTT  
TCTGGGGCCCGAGGAAGCCACACTATGCACAGAGCCCAATGCATAGAGCCCTGGCCAGCCCTTCTCTCACTCCT  
TTAGCAGATGTGGTTTCAAAGTAAAGGCCTCTCCCCACCCCTTAGGCCCCGTGGTGACATTTCCCAAGTCAGA  
CAGATGTCAGCTTCCCAGCCATGCCAGGACGTCTATCTCCCCAACCCACCTCTGGCCCTGTGTAGGGGCAGG  
GATGGGGGTGGCTGGGACTCCTGGTGGCCCTCGCCAGCTTCTCCTGCGCCCCGCCCCACACCTCGGGGGGTGAC  
AGGCCCAGAAGGGTAGCTGGGCGGGGCTCGAGGCTGGTGCCAGGCGGTGTAATGGTTTTGTTTTGCACGTTG  
GTTTGCGCAGTAGTTTGGTTTGACTTGTGTTGTGATCCTGTGAAAAATAACGGTGCTTGTGTCACTAGCATAGAA  
TAGCGACAGGAATAGATGTGGTCTTAGGAGACGTGCACCTTGACACCAACCAGACAGCACAGGGCAGGGGTGGT  
GGAGGGGGCTGGGCTCACAGGCCTCTCTTTTCCCGCCTGCAGTCTTCTGGGCTGCGGGAGGCCCTGGCCCTTTC  
CCCTTCCCCTCCCCTCCTTGTCTAGTTTCCACATTCCAAAAGGGGGCTGGGATGCTAGCCCCAGAGATGCCAG  
CCCTTCAGGAAGCAGGTGTCTTTCCCTCTCTGCCCTGATCACTCCCAGCACTCCCCTTGCCTTCCCCTGTCT  
TCACCTGCCACCACACACACACACACACACACACACACACACATGGCTTCTATAACTTCTTCTGCTGT  
GACAGAGACTCAGCGCTCCTCCTGTGTGACTGGCAAGAGGCCTCATGCCTGCTGAGAGAGGGTTCGACGGGCCG

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**FIGURE 710**

MLANSASVRILIKGKGVVNDCTHEADVYIENGIIQQVGRELMIPGGAKVIDATGKLVIPGGIDTSTHFHQTFMN  
ATCVDDDFYHGTKAALVGGTTMIIGHVLDPDKETSLVDAYEKCRLADPKVCCDYALHVGITWWAPKVAEMETLVR  
EKGVNSFQMFMTYKDLMYLRDSELYQVLHACKDIGAIARVHAENGELVAEGAKEALDLGITGPEGIEISRPEELE  
AEATHRVITIANRTHCPYILVNVSSISAGDVIAAAKMQGKVVLAETTTAHATLTGLHHYHQDWSHAAAYVTVPP  
RLDTNTSTYLSMLLANDTLNIVASDHRPFTTKQKAMGKEDFTKIPHGVSQVQDRMSVIWERGVSQVGGKMDENRFVA  
VTSSNAAKLLNLYPRKGRIIPGADADVVDPEATKTIASASTQVQGGDFNLNENMRCHGVPLVTISRGRVYENG  
VFMCAEGTGKFCPLRSFPDVTYKKLVQREKTLKVRGVDRTPYLGDAVVVHPGKKEMGTPLADTPTRPVTRHGM  
RDLHESSFSLSGSQIDDHVPKRASARILAPPGGRSSGIW



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**FIGURE 711**

CTTGCTCCGAGAGGGAGTCCTCGCGGACGTCAGCCAAGATTCCAGAAATGACTATCTTGA CT TACCCCTTTAAAAA  
TCTTCCCAGTGCATCAAAATGGGCCCTCAGATTTTCCATAAGACCTCTGAGCTGTTCCCTCCAGCTACGAGCTGC  
CCCAGCTGTCCAGACCAAAACGAAGAAGACGTTAGCCAAACCAATATAAGGAATGTTGTGGTGGTGGATGGTGT  
TCGCACTCCATTTTTGTGTCTGGCACTTCATATAAAGACCTGATGCCACATGATTTGGCTAGAGCAGCGCTTAC  
GGGTTTGTGTGCATCGGACCAGTGTCCCTAAGGAAGTAGTTGATTATATCATCTTTGGTACAGTTATTACAGGAAGT  
GAAAACAAGCAATGTGGCTAGAGAGGCTGCCCTTGGAGCTGGCTTCTCTGACAAGACTCCTGCTCACACTGTCAC  
CATGGCTTGTATCTCTGCCAACCAAGCCATGACCACAGGTGTTGGCTTGATTGCTTCTGGCCAGTGTGATGTGAT  
CGTGGCAGGTGGTGTGAGTTGATGTCCGATGTCCCTATTTCGTCACTCAAGGAAAATGAGAAAATGATGCTTGA  
TCTCAATAAGGCCAAATCTATGGGCCAGCGACTGTCTTAAATCTCTAAATTCCGATTTAATTTCCCTAGCACCTGA  
GCTCCCTGCGGTTTCTGAGTTCTCCACCAAGTGAAGCCATGGGCCACTCTGCAGACCGACTGGCCGCTGCCTTTGC  
TGTTTCTCGGCTGGAAACAGGATGAATATGCACTGCGCTCTCACAGTCTAGCCAAGAAGGCACAGGATGAAGGACT  
CCTTCTGATGTGGTACCCTTCAAAGTACCAGGAAAAGATACAGTTACCAAAGATAATGGCATCCGCTCCTTCCTC  
ACTGGAGCAGATGGCCAAACTAAAACCTGCATTATCAAGCCCTACGGCACAGTGACAGCTGCAAATTCCTCTTT  
CTTGACTGATGGTGCATCTGCAATGTTAATCATGGCGGAGGAAAAGGCTCTGGCCATGGGTTATAAGCCGAAGGC  
ATATTTGAGGGATTTTATGTATGTGCTCAGGATCCAAAGATCAACTATTACTTGGACCAACATATGCTACTCC  
AAAAGTTCTAGAAAAGGCAGGATTGACCATGAATGATATTGATGCTTTTGAATTCATGAAGCTTCTCGGGTCA  
GATTTTGGCAAATTTTAAAGCCATGGATTCTGATTGGTTTGCAGAAAATACATGGGTAGAAAAACCAAGGTTGG  
ATTGCCTCCTTTGGAGAAGTTTAAATAACTGGGGTGGATCTCTGTCCCTGGGACACCCATTTGGAGCCACTGGCTG  
CAGGTTGGTCATGGCTGCTGCCAACAGATTACGGAAAGAAGGAGGCCAGTATGGCTTAGTGGCTGCGTGTGCAGC  
TGGAGGGCAGGGCCATGCTATGATAGTGGAGCTTATCCAAAATAATAGATCCAGAAGAAGTGACCTGAAGTTTC  
TGTGCAACACTCACACTAGGCAATGCCATTTCAATGCATTACTAAATGACATTGTAGTTCCCTAGCTCCTCTTAG  
GAAAACAGTTCTTGTGGCCTTCTATTAAATAGTTTGCACCTTAAGCCTTGCCAGTGTCTGAGCTTTTCAATAATC  
AGTTTACTGCTCTTTCAGGGATTTCTAAGCCACCAGAATCTCACATGAGATGTGTGGGTGGTTGTTTTTGGTCTC  
TGTTGTCACTAAAGACTAAATGAGGGTTTGCAGTTGGGAAAGAGGTCAACTGAGATTGGAAATCATCTTTGTAA  
TATTTGCAAATTATACCTGTTCTTATCTGTGTCCTAAAGATGTGTTCTCTATAAAATACAAACCAACGTGCCTAA  
TTAATTATGGAAAAATAATTCAGAATCTAAACACCACTGAAAACCTTATAAAAAATGTTTAGATACATAAATATGG  
TGGTCAGCGTTAATAAAGTGGAGAAATATTGGAAAAA

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**FIGURE 712**

MTILTYPFKNLPTASKWALRESIRPLSCSSQLRAAPAVQTKKTLAKPNIRNVVVVDGVRTPFLLSGTSYKDLM  
PHDLARAALTGLLHRTSVPKEVVYIIFGTVIQEVKTSNVAREEALGAGFSDKTPAHTVTMACISANQAMTTGVG  
LIASGQCDVIVAGGVELMSDVP IRHSRKMRLMLDLNKAQSMGQRLSLISKFRFNFLAPELPAVSEFSTSETMGH  
SADRLAAAFVSRLEQDEYALRSHSLAKKAQDEGLSDVVPFKVPGKDTVTKDNGIRPSSLEQMAKLPKPAFIKPY  
GTVTAANSSFLTDGASAMLIMAEKALAMGYKPKAYLRDFMYVSQDPKDQLLLGPTYATPKVLEKAGLTMNDIDA  
FEFHEAFSGQILANFKAMDSWFAENYMGRKTKVGLPPELFNNWGGSLSLGHPFGATGCRLVMAAANRLRKEGG  
QYGLVAACAAGGQGHAMIVEAYPK

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**FIGURE 713**

GGCACGAGGCCACTGCTGTCTCTTCAGCTCAAGATGGTGGCCTGCCGGGCGATTGGCATCCTCAGCCGCTTTTC  
TGCCCTTCAGGATCCTCCGCTCCCGAGGTTATATATGCCGCAATTTTACAGGGTCTTCTGCTTTGCTGACCAGAAC  
CCATATTAACATATGGAGTCAAAGGGGATGTGGCAGTTGTTTGAATTAACCTCTCCCAATTCAAAGGTAAATACACT  
GAGTAAAGAGCTACATTCAGAGTTCTCAGAAGTTATGAATGAAATCTGGGCTAGTGATCAAATCAGAAGTGCCGT  
CCTTATCTCATCAAAGCCAGGCTGCTTTATTGCAGGTGCTGATATCAACATGTTAGCCGCTTGCAAGACCCTTCA  
AGAAGTAACACAGCTATCACAAGAAGCACAGAGAATAGTTGAGAACTTGAAAAGTCCACAAAGCCTATTGTGGC  
TGCCATCAATGGATCCTGCCTGGGAGGAGGACTTGAGGTTGCCATTTTCATGCCAATACAGAATAGCAACAAAAGA  
CAGAAAAACAGTATTAGGTACCCCTGAAGTTTTGCTGGGGGCCCTTACCAGGAGCAGGAGGCACACAAAGGCTGCC  
CAAAATGGTGGGTGTGCTGCTGCTTTGGACATGATGCTGACTGGTAGAAGCATTTCGTGCAGACAGGGCAAAGAA  
AATGGGACTGGTTGACCAACTGGTGGAAACCCTGGGACCAGGACTAAAACCTCCAGAGGAACGGACAATAGAATA  
CCTAGAAGAAGTTGCAATTACTTTTGCCAAAGGACTAGCTGATAAGAAGATCTCTCCAAAGAGAGACAAGGGATT  
GGTGGAAAAATTGACAGCGTATGCCATGACTATTCCATTTGTCAGGCAACAGGTTTACAAAAAGTGGAAGAAAA  
AGTGCGAAAGCAGACTAAAGGCCCTTTATCCTGCACCTCTGAAAATAATTGATGTGGTAAAGACTGGAATTGAGCA  
AGGGAGTGATGCCGTTATCTCTGTGAATCTCAGAAATTTGGAGAGCTTGAATGACCAAGAATCAAAGGCCCTT  
GATGGGACTCTACCATGGTCAGGTCCTGTGCAAGAAGAATAAATTTGGAGCTCCACAGAAGGATGTTAAGCATCT  
GGCTATTCTTGGTGCAGGGCTGATGGGAGCAGGCATCGCCCAAGTCTCCGTGGATAAGGGGCTAAAGACTATACT  
TAAAGATGCCACCCTCACTGCGCTAGACCGAGGACAGCAACAAGTGTTCAAAGGATTGAATGACAAAGTGAAGAA  
GAAAGCTCTAACATCATTTGAAAGGGATTCCATCTTCAGCAACTTGACTGGGCAGCTTGATTACCAAGGTTTTGA  
AAAGGCCGACATGGTGATTGAAGCTGTGTTTGAGGACCTTAGTCTTAAGCACAGAGTGCTAAAGGAAGTAGAAGC  
GGTGATTCCAGATCACTGTATCTTTGCCAGTAACACATCTGCTCTCCCAATCAGTGAATCGCTGCTGTCTAGCAA  
AAGACCTGAGAAGGTGATTGGCATGCACTACTTCTCTCCCGTGGACAAGATGCAGCTGCTGGAGATTATCACGAC  
CGAGAAAACCTTCCAAAGACACCAGTGCTTCAGCTGTAGCAGTTGGTCTCAAGCAGGGGAAGGTCATCATTGTGGT  
TAAGGATGGACCTGGCTTCTATACTACCAGGTGTCTTGCGCCCATGATGTCTGAAGTCATCCGAATCCTCCAGGA  
AGGAGTTGACCCGAAGAAGCTGGATTCCCTGACCACAAGCTTTGGCTTTCCGTGTGGGTGCCGCCACACTGGTGGA  
TGAAGTTGGTGTGGATGTAGCGAAACATGTGGCGGAAGATCTGGGCAAAGTCTTTGGGGAGCGGTTTGGAGGTGG  
AAACCCAGAAGCTGCTGACACAGATGGTGTCCAAGGGCTTCCTAGGTCGTAAATCTGGGAAGGGCTTTTACATCTA  
TCAGGAGGGTGTGAAGAGGAAGGATTTGAATTCTGACATGGATAGTATTTTAGCGAGTCTGAAGCTGCCTCCTAA  
GTCTGAAGTCTCATCAGACGAAGACATCCAGTTCGCTGCTGACAAGATTGTGAATGAGGCAGTCATGTGCCT  
GCAAGAGGGGATCTTGCCACACCTGCAGAGGGAGACATCGGAGCCGTCTTTGGGCTTGGCTTCCCGCCTTGCT  
GGGAGGGCCTTTCCGCTTTGTGGATCTGTATGGCGCCAGAAGATAGTGGACCGGCTCAAGAAATATGAAGCTGC  
CTATGGAAAACAGTTACCCCCATGCCAGCTGCTAGCTGACCATGCTAACAGCCCTAACAAAGAAGTTCTACCAGTG  
AGCAGGCCTCATGCCTCGCTCAGTCAGTGCACCTAACCCAGCTGCCGGCAGTGTGTTCTCCAACAGAGTGGTG  
TCTAGATTTATCAGAGTAACGAGAAGACAACTCCGGCACTGGGTTTGCTCCCTGATTAAAGTGCCTTCAGCCAA  
GACCATCTCTCCCTCCTGGTGAAGTGTGACTTCGAATTAGTTTGCACTTCTATTGGAAGGTAGAGCCCACTGCT  
CATTGATATAAGCCCCGAGGCCTAGAGTGGCAGCCAAGAGCCATCTGAAGCCACCTCTCTGCCTGTTTCTCCCAAG  
AGGCCAGGGTGGCCAGGGGTGGTGAGGGCAGTTCTGCACCCAGCCAAACACATAACAATAAAAAACCAAACCTCTGT  
GTCAGCATCTTTGCCCTTCTGGTTTAAACGCCTCCTTCAAAAAGCAATCTGGAAGAAAGCCCTGTGCTTTGGGGG  
AGTAAGAATGTGTGTGTCAGAATTCTAGGCAGCACCTTAGGGAGGGACTGGGATGAGAGAAAGTGGGACCTGGTGG  
GCTCAACCACACACCTGTCTGTGCAGATGCTTTGCCAGGCTTCTCACCACGGTGTACCGGGATATTAAACCT  
CTTTCGCCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 714**

MVACRAIGILSRFSAFRILRSRGYICRNFTGSSALLTRTHINYGVKGDVAVVRINSPNSKVNTLSKELHSEFSEV  
MNEIWASDQIRSAVLISSEKPGCFIAGADINMLAACKTLQEVTLQSQEAQRIVEKLEKSTKPIVAAINGSCLGGL  
EVAISCQYRIATKDRKTVLGTPEVLLGALPGAGGTQRLPKMVGVPAAALDMLTGRSIRADRAKKMGLVDQLVEPL  
GPGLKPPEERTIEYLEEVAITFAKGLADKKISPKRDKGLVEKLTAYAMTIPFVRQQVYKKVEEKVRKQTKGLYPA  
PLKIIDVVKTGIEQGS DAGYLCESQKFGE LVMTKESKALMGLYHGQVLCCKNKFGAPQKDVKHLAILGAGLMGAG  
IAQVSVDKGLKTI LKDATLTALDRGQQQVFKGLNDKVKKKALT SFERDSIFS NLTGQLDYQGF EKADMVIEAVFE  
DLSLKHRVLKEVEA VIPDHCIFASNTSALP ISEIAAVSKRPEK VIGMHYFSPVDKMOLLEIITTEKTSKDT SASA  
VAVGLKQGKVIIIVKDGPGFYTT RCLAPMMSEVIRILQEGVDPKKLDSLTT SFGFPVGAATLVDEVGVDVAKHVA  
EDLGKVFGERFGG NPELLTQMVSKGFLGRKSGKGFYIYQEGVKRKDLNSDMSILASLKLPPKSEVSSDEDIQF  
RLVTRFVNEAVMCLQEGILATPAEGDIGAVFGLGFPCLGGPFRFVDLYGAQKIVDRLKKYEAA YGKQFTPCQLL  
ADHANSPNKKFYQ

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**FIGURE 715**

TTCTGTTTTTCTCTCTCATTCTCCAGTGGCGGCGGGGGAAGGCGGAGGCAGAGGCAGCAGCAGCCGCGCTGGC  
TGCAATGAATGATCCCCAGCTTGGGGGGAGGACTCCAGGTGAGCCTCTGCCCTCGGGAGGCCCGGGACCCCCGG  
CCGCCCACGACCGGCAGCCCACGCTATGGATCCCTAGAGGAAGGAGGAGAAGACAGCTCGCCGCCACCCCCATC  
CCATTTTCCTCTTCCTTTATCTCATTGTTGCCGAAGCTGTTTACGGCAGCGCTCCCTCTGCTCCAGGACTCCCTG  
GGGGGGAATGCCAAGACCATCATGGTAGCCACACTGGGGCCAGCTTCTCACAGCTACGATGAGAGCCTCTCCACC  
TTGCGCTTTGCCAACCGAGCCAAGAACATCAAGAACAAGCCCCAGGTGAACGAGGACCCCAAGGACACACTGCTG  
CGGGAATTCCAAGAGGAGATTGCCCCGCTGAAGGCCCAGCTGGAGAAGAGGGGGATGCTGGGGAAGCGGCCCCGG  
AGGAAGAGCAGCCGCAGGAAGAAGGCCGTGTCCGCCCCGCTGGGTACCCTGAGGGCCCAGTGATTGAGGCCTGG  
GTGGCAGAAGAGGAGGATGACAACAACAACCACCGCCCGCCCCAGCCATCCTGGAGTCAGCCTTGGAGAAG  
AACATGGAGAATTACCTGCAGGAACAGAAGGAGCGGCTGGAGGAGGAGAAGGCAGCCATCCAGGATGACCGCA

**FIGURE 716A**

GCTGGAGGTCGCTTCCCTCCGCCCCAGACAAAGAGAGGCCCTCAGCCCTCCCCGGTCTCAGAGAGCCCTGAGA  
GGAGGCCAGCTCCAGAGCTCTTCTCCGTTCCAGTCCACTTCTCTAGGGCCAGTAGCAGACACCAGCCAGTATG  
CCGAGGAACCAGGGCTTCTCCGAGCCGAATACTCGGCCGAGTACTCAGCCGAGTACTCCGTCAGCCTGCCCTCC  
GACCCTGACCGCGGGGTGGGCCGACCCATGAAATCTCGGTCCGGAACCTGGGCTCCTGCCTGTGCCTGCCTCG  
TTCATGCGGCTGACTTTTCGTGCCGGAGTCTTTGGAGAACCTCTACCAGACCTACTTCAAAGGCAGCGCCACGAG  
ACCCTGCTGGTGTGGTGGTCTTTGCAGCCCTCTTTGACTGCTACGTGGTGGTTCATGTGTGCTGTGGTCTTCTCC  
AGCGACAAGCTGGCTTCCCTCGCCGTGGCTGGAATTGGACTGGTGTGGACATCATCTCTTCTGTGCTGTGCAA  
AAGGGGCTGCTCCCGGACCGGGTCACCCGCAGAGTGTGTCCTACGTGCTGTGGTGTCTATAACCGCCAGATC  
TTCTCTACCTGGGCTGAACTTCGCGCGTGCCACGCGGCTAGTGACACGGTGGGTGGCAGGTCTTCTTTGTG  
TTCTCTTCTTTCATCAGCTGCCCTCAGCCTCAGCCCCATCGTGATCATCTCCGTGGTCTCCTGTGTGGTGCAC  
ACGTTGGTCTTGGGGGTACCGTGGCCAGCAGCAGCAGGAGGAGCTCAAGGGGATGCAGCTGCTGCGGGAGATC  
CTGGCCAACGTCTTCTCTACCTGTGCGCCATCGCTGTGGGCATCATGTCTACTACATGGCTGACCGCAAGCAC  
CGCAAGGCCTTCTGGAGGCCCGCCAGTCGCTGGAGGTGAAGATGAACCTGGAAGAGCAGAGCCAGCAGCAGGAG  
AACCTCATGCTTTCCATCTGCCCCAAGCACGTGGCTGACGAGATGCTGAAAGACATGAAGAAAGACGAGAGCCAG  
AAGGACCAGCAGCAGTTCAACACCATGTACATGTACCGTCACGAGAACGTCAGCATCCTCTTTGCCGACATCGTG  
GGCTTTACCCAGCTGTCTTCTGCCTGCAGTGCCAGGAGCTTGTAAGCTGCTCAACGAGCTCTTTGCCCGCTTT  
GACAAGCTGGCAGCTAAATACCACAGCTGCGGATTAAGATCCTGGGCGACTGCTACTACTGCATCTGCGGCTTG  
CCCGACTACCGGGAGGACCACGCCGTCTGCTCCATCCTCATGGGGCTGGCCATGGTGGAGGCCATCTCGTATGTG  
CGGGAGAAGACCAAGACTGGGGTGGACATGCGTGTGGGGGTGCACACGGGCACCGTGCTGGGGGGCGTCTGGGC  
CAGAAGCGCTGGCAGTACGACGTGTGGTTCGACTGATGTCACTGTAGCCAAAGATGGAGGCCGGCGGCATCCCT  
GGGCGCGTGCACATCTCCAGAGCACAATGGACTGCCTGAAAGGGGAGTTTGATGTGGAGCCAGGCGATGGGGG  
AGCCGCTGTGATTACCTAGAAGAGAAGGATTTGAAACCTACCTCATCATTGCCTCCAAGCCAGAGGTGAAGAAA  
ACAGCCACCCAGAATGGCTCAATGGCTCGGCCCTGCCCAATGGAGCACCAGCTTCTCAAAGTCCAGCTCCCTT  
GCCCTCATTGAGACCAAGGAGCCCAACGGGAGTGCCACAGCAGTGGGTCCACGTGGGAGAACCCGAGGAGCAG  
GATGCCAGGCCGACAACCCCTCATTCCCCAACCCACGCCGGAGGCTGCGCCTGCAGGACCTGGCTGACCGAGTG  
GTGGATGCCTCTGAAGATGAGCACGAGCTCAACCAGCTGCTCAACGAGGCCCTGCTTGAGCGAGAGTCCGCCCAA  
GTGTAAGAAGAGAAACACCTTCTTGTGCCATGCGGTTTCATGGACCCGAGATGGAACCCGCTACTCGGTGG  
AGAAGGAGAAGCAGAGTGGGGCTGCCTTCAGCTGCTCCTGCGTCGTCTGCTCTGCACGGCCCTGGTCGAGATAC  
TCATCGACCCCTGGCTAATGACAACTATGTGACCTTCATGGTGGGGGAGATTCTGCTCCTCATCCTGACCATCT  
GCTCCCTGGCTGCCATCTTTCCCCGGGCCCTTCTTAAGAAGCTTGTGGCTTCTCAACTTGGATTGACCGGACCC  
GCTGGGCCAGGAACACCTGGGCCATGCTCGCCATCTTCATCCTGGTGATGGCAAATGTCGTGGACATGCTCAGCT  
GTCTCCAGTACTACACGGGACCCAGCAATGCAACGGCAGGGATGGAACGGAGGGCAGCTGCTGGAGAACCCCA  
AGTATTACAACTATGTGGCCGTGCTGTCCCTCATCGCCACCATCATGCTGGTCAGGTCAGGTCAGCCACATGGTGAAGC  
TCACGCTCATGCTGCTCGTCGAGGCGCCGTGGCCACCATCAACCTCATGCTTGGCTGGCGTCCCGTCTTTGATGAAT  
ACGACCACAAGCGTTTTTCGGGAGCAGACTTACCTATGGTGGCCTTAGAGCAGATGCAAGGATTCAACCTGGGC  
TCAATGGCACTGACAGGCTGCCCTGGTGCTTCCAAGTACTCATGACGGTGATGGTGTCTCCTCATGATGCTCA  
GCTTCTACTACTTCTCCCGACAGTGAAAAACCTGGCACGGACACTTTTTCTTGTGGAAGATTGAGGTCCACGACC  
AGAAGGAACGTGTCTATGAGATGCGACGCTGGAACGAGGCCCTTGGTCACCAACATGTTGCCTGAGCACGTGGCAC  
CCCTTTCTTGGGGTCCAAGAAGAGAGATGAGGAGCTGTATAGCCAGACGTATGATGAGATTGGAGTCATGTTTG  
GCTCCCTTCCCAACTTTGTCTGACTTCTACACAGAGGAGAGCATCAACAATGGTGGTATTGAGTGTCTGCGTTTTCC  
TCAATGAAATCATCTCAGATTTGACTCTCTCCTGGACAATCCCAAGTTCGGGTGATCACCAAGATCAAAACCA  
TTGGCAGCACGTATATGGCGGCTTCAGGAGTACCCCCGATGTCAACACCAATGGCTTTGCCAGCTCCAACAAG  
AAGACAAGTCCGAGAGAGAGCGCTGGCAGCACCTGGCTGACCTGGCCGACTTCGCGCTGGCCATGAAGGATACGC  
TCACCAACATCAACAACAGTCTTCAATAACTTCATGCTGCGCATAGGCATGAACAAAGGCGGGGTTCTGGCTG  
GGGTATCGGAGCCCGGAAACCACACTACGACATCTGGGGCAATACAGTCAATGTAGCCAGCAGGATGGAGTCCA  
CGGGGGTTCATGGGCAACATTACAGGTATGTCCAGTGGCACAGCTGGCACGTGCTCAGACTCGGCATGAGAACAAA  
CCGGAACAGTGTCTTCCACGTGCCCTGCCTCCACCCCTGGCCCTGAACAGTAAGTCCAGAGGCAGAGACGTGG  
GGCAAGTGGAAAAGAATCTCTGCAATAGCTAGCCTCAGCACAGGAAGAAACACTTCCACCCATCCACAAAATCTG

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**FIGURE 716B**

GGCTGAAGTTCTAGATGCATATGGCCTACCTTTGGGTATGAACCTTCTAATACCTTGTGATCTGTCTCAGTGGCG  
TCTGGCAGAAAAGCTCCACGAAAGGGGCAAAGGGACAGAAGAGCAGGCAGTGGCAGTTTCCAGGTAACAGTGCTG  
CCACCCAGGTGACCATGGCCATCCTAGGAGAGAAGTCTCTGGATGAGAGGAGGCCCCCAGCCAGTCACTCCAGGG  
TTCTCCTTCCCACCCGCTGCTCGCCACGGGTGGAAGGGCTTGGCCC

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**FIGURE 717**

GCCGCGGCACCAGGGCGCGCAGCCGGGCGGGCCCGACCCACCGGCCATACGGTGGAGCCATCGAAGCCCCACC  
CACAGGCTGACAGAGGCACCGTTCCACCAGAGGGCTCAACACCGGGATCTATGTTTAAAGTTTAACTCTCGCCTCC  
AAAGACCACGATAATTCCTTCCCCAAAGCCAGCAGCCCCCAGCCCCGCGCAGCCCCAGCCTGCCTCCCGGCGC  
CCAGATGCCCCGCGCATGCCCTCCAGCGGCCCCGGGGACACCAGCAGCTCTGCTGCGGAGCGGGAGGAGACCAGAA  
GGACGGAGAGGAGCAGGAGGAGCCGCGTGGCAAGGAGGAGCGCCAAGAGCCCAGCACCACGGCAGGAAAGGTGGG  
GCGGCCTGGGAGGAAGCGCAAGCACCCTCCGGTGGAAAGCGGTGACACGCCAAAGGACCCTGCGGTGATCTCCAA  
GTCCCATCCATGGCCAGGACTCAGGCGCTCAGAGCTATTACCCAATGGGGACTTGGAGAAGCGGAGTGAGCC  
CCAGCCAGAGGAGGGGAGCCCTGCTGGGGGGCAGAAGGGCGGGGCCCCAGCAGAGGGAGAGGGTGACGCTGAGAC  
CCTGCTGAAGCCTCAAGAGCAGTGGAAAATGGCTGCTGCACCCCAAGGAGGGCCGAGGAGCCCTGCAGAAGC  
GGGCAAGAAGACAGAAGGAGACCAACATCGAATCCATGAAAATGGAGGGCTCCCGGGGCCGGCTGCGGGGTGGCTT  
GGGCTGGGAGTCCAGCCTCCGTCAGCGGCCCATGCCGAGGCTCACCTTCCAGGCGGGGAGCCCTACTACATCAG  
CAAGCGCAAGCGGGACGAGTGGCTGGCACGCTGGAAAAGGGAGGCTGAGAAGAAAGCCAAGGTCAATTGCAGGAAT  
GAATGCTGTGGAAGAAAACCAGGGGCCCGGGGAGTCTCAGAAGGTGGAGGAGGCCAGCCCTCCTGCTGTGAGCA  
GCCCCACTGACCCCGCATCCCCACTGTGGCTACACGCTGAGCCCGTGGGGTCCGATGCTGGGGACAAGAATGC  
CACCAGAGCAGGCGATGACGAGCCAGAGTACGAGGACGGCCGGGGCTTTGGCATTGGGGAGCTGGTGTGGGGAA  
ACTGCGGGGCTTCTCCTGGTGGCCAGGCCGCTTGTGTCTTGGTGGATGACGGGCCGAGCCGAGCAGCTGAAGG  
CACCCGCTGGGTGATGTGGTTCCGAGACGGCAAATTCTCAGTGGTGTGTGTTGAGAAGCTGATGCCCTGAGCTC  
GTTTTGCAGTGCCTTCCACCAGGCCACGTACAACAAGCAGCCATGTACCGCAAAGCCATCTACGAGTCTCTGCA  
GGTGGCCAGCAGCCGCGCGGGGAAGCTGTTCCCGGTGTGCCACGACAGCGATGAGAGTGACATGCCAAGGCCGT  
GGAGGTGCAGAACAAGCCCATGATTGAATGGGCCCTGGGGGGCTTCCAGCCTTCTGGCCCTAAGGGCTGGAGCC  
ACCAGAAGAAGAGAAGAATCCCTACAAAGAAGTGACACGGACATGTGGGTGGAACCTGAGGCAGCTGCCTACGC  
ACCACCTCCACCAGCCAAAAGCCCCGGAAGAGCACAGCGGAGAAGCCCAAGGTCAAGGAGATTATTGATGAGCG  
CACAAGAGAGCGGCTGGTGTACGAGGTGCGGCAGAAGTGCCGGAACATTGAGGACATCTGCATCTCCTGTGGGAG  
CCTCAATGTTACCCTGGAACACCCCTCTTCGTTGGAGGAATGTGCCAAAAGTGAAGAACTGCTTTCTGGAGTG  
TGCGTACCAGTACGACGACGACGGCTACCACTCTACTGCACCATCTGCTGTGGGGCCGCTGAGGTGCTCATGTG  
CGGAAACAACAAGTGTGCTGAGGTGCTTTTGGTGGAGTGTGTGGACCTCTTGGTGGGGCCGGGGGCTGCCAGGC  
AGCCATTAAGGAAGACCCCTGGAAGTGTACATGTGCGGGCACAAGGGTACCTACGGGCTGCTGCGGCGGCGAGA  
GGACTGGCCCTCCCGGCTCCAGATGTTCTTCGCTAATAACCACGACCAGGAATTTGACCCTCCAAAGGTTTACCC  
ACCTGTCCAGCTGAGAAGAGGAAGCCCATCCGGGTGCTGTCTCTCTTTGATGGAATCGCTACAGGGCTCCTGGT  
GCTGAAGGACTTGGGCATTGAGGTGACCGCTACATTGCCTCGGAGGTGTGTGAGGACTCCATCACGGTGGGCAT  
GGTGGCGCACAGGGGAAGATCATGTACGTGCGGGACGTCCGCGAGCGTCACACAGAAGCATATCCAGGAGTGGGG  
CCCATTCGATCTGGTGATTGGGGGAGTCCCTGCAATGACCTCTCCATCGTCAACCTGCTCGCAAGGGCTCTA  
CGAGGGCACTGGCCGGCTCTTCTTTGAGTTCTACCGCTCCTGCTATGATGCGCGGCCCAAGGAGGGAGATGATCG  
CCCCTTCTTCTGGCTCTTTGAGAATGTGGTGGCCATGGGCGTTAGTGACAAGAGGGACATCTCGCGATTTCTCGA  
GTCCAACCTGTGATGATTGATGCCAAAGAAGTGTGAGCTGCACACAGGGCCCGCTACTTCTGGGGTAACCTTCC  
CGGTATGAACAGGCGGTTGGCATCCACTGTGAATGATAAGCTGGAGCTGCAGGAGTGTCTGGAGCATGGCAGGAT  
AGCCAAGTTCAGCAAAGTGAGGACCATTAACGAGGTCAAACCTCCATAAAGCAGGGCAAAGACCAGCATTTTCC  
TGCTTTCATGAATGAGAAAGAGGACATCTTATGGTGCAGTGAATGGAAAGGGTATTTGGTTTCCAGTCCACTA  
TACTGACGTCTCCAACATGAGCCGCTTGGCGAGGCAGAGACTGCTGGGCCGGTCATGGAGCGTGCCAGTCATCCG  
CCACCTCTTCTGCTCCGCTGAAGGAGTATTTGCGTGTGTGTAAGGACATGGGGGCAAAGTGGGTAGCGACACA  
AAGTT



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**FIGURE 718**

MPAMPSSGPGDTSSSAAREEDRKDGEEQEEPRGKEERQEPSTTARKVGRPGRKRKHPPVESGDTPKDPAVISKS  
PSMAQDSGASELLPNGDLEKRSEPPQEEGSPAGGQKGGAPAEEGEGAAETLPEASRAVENGCCTPKEGRGAPAEAG  
KEQKETNIESMKMEGSRGRLRGGLGWESSLRQRPMPRLTFQAGDPYYISKRRDEWLARWKREAEKKAKVIAGMN  
AVEENQGPGESQKVVEASPPAVQQPTDPASPTVATTPEPVGSDAGDKNATKAGDDEPEYEDGRGFGIGELVWGKL  
RGFSWWPGRIVSWWMTGRSRAAEGTRWVMWFGDGKFSVVCVEKLMPLSSFCSAFHQATYNKQPMYRKAIYEVLOV  
ASSRAGKLFVPVCHDSDESDTAKAVEVQNKPMIEWALGGFQPSGPKGLEPPEEEKNPYKEVYTMWVEPEAAAYAP  
PPPAKKPRKSTAEKPKVKEIIDERTRERLVYEVQRKCRNIEDICISCGSLNVTLEHPLFVGGMQCNCKNCFLECA  
YQYDDDGYSYCTICCGGREVLNCGNNCCRCFCVECDLLVGPAAQAAIKEDPWNCYMCCHKGTGGLRRRED  
WPSRLQMFFANNHDQEFDPKVPVPAEKRPPIRVLSLFDGIATGLLVKDLGIQVDRIASEVCEDSITVGMV  
RHQGKIMYVGDVRSVTQKHIQEWGPFDLVIGGSPCNDLSIVNPARKGLYEGTGRLFFEFYRLLDARPKEGDDR  
FFWLFENVVAMGVSDKRDISRFLSNPVMIDAKEVSAHRARYFWGNLPGMNRPLASTVNDKLELQECLEHGRIA  
KFSKVRTITTRSNSIKQKQDQHFVFMNEKEDILWCTEMERVFGFPVHYTDVSNMSRLARQRLGRSWSVPVIRH  
LFAPLKEYFACV

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**FIGURE 719**

CTGACCGCCGGGGGGTGGCCCCGGGACGTAGCGCCGCGGAGAGGAAGCGGGCAAAGGGGACCATGCGGCGCCTGAC  
TCGTGCGGTGTTCTGCCAGTCTTCGGGGTGCTCTGGATCACGGTGCTGCTGTTCTTCTGGGTAACCAAGAGGAA  
GTTGGAGGTGCCGACGGGACCTGAAGTGCAGACCCCTAAGGTTTGGTCCTTGTTTTTCAAGGTGGCTGGGATGAG  
CCCTTGGGCGCCTCAGGTGCCTGTATCACCCACTCCTCCCTACCAAAGAGGGCATCTTCCTACAGGAGGACACCT  
TGCTGTATGTCAATTTCCCATGTCTCTTGCAAGAAGCTCAGTTCCATTGTCAGACTCAGGTCTTTCTTCAAGTCAG  
ATGCACACTGCTGGTGTATTGCACGGACCTTCCACCCACTAGCATCATCATCACCTTCCACAACGAGGCCCCGCTC  
CAGCTGCTCAGGACCATCCGCAGTGTATTAAACCGCACCCCTACGCATCTGATCCGGGAAATCATATTAGTGGA  
TGACTTCAGCAATGACCCTGATGACTGTAAACAGCTCATCAATTGCCCAAGGTGAAATGCTTGCGCAATAATGA  
ACGGCAAGGTCTGGTCCGGTCCCGGATTCCGGGGCGCTGACATCGCCCAAGGGCACCCTCTGACTTTCTCGACAG  
CCACTGTGAGGTGAACAGGGACTGGCTCCAGCCTCTGTTGCACAGGGTCAAAGAGGACTACACGCGGGTGGTGTG  
CCCTGTGATCGATATCATTAACTGGACACCTTCACCTACATCGAGTCTGCCTCGGAGCTCAGAGGGGGGTTTGA  
CTGGAGCCTCCACTTCCAGTGGGAGCAGCTCTCCCCAGAGCAGAAGGCTCGGCGCCTGGACCCACGGAGCCCAT  
CAGGACTCCTATCATAGCTGGAGGGCTCTTCGTGATCGACAAAGCTTGGTTTGATTACCTGGGGAAATATGATAT  
GGACATGGACATCTGGGGTGGGGAGAACTTTGAAATCTCCTTCCGAGTGTGGATGTGCGGGGGCAGCCTAGAGAT  
CGTCCCCTGCAGCCGAGTGGGGCACGTCTTCCGGAAGAAGCACCCCTACGTTTTCCCTGATGGAAATGCCAACAC  
GTATATAAAGAACAACCAAGCGGACAGCTGAAGTGTGGATGGATGAATACAAGCAATACTATTACGCTGCCCGGCC  
ATTGCCCCTGGAGAGGCCCTTCCGGGAATGTTGAGAGCAGATTGGACCTGAGGAAGAATCTGCGCTGCCAGAGCTT  
CAAGTGGTACCTGGAGAATATCTACCCTGAACTCAGCATCCCCAAGGAGTCCCTCCATCCAGAAGGGCAATATCCG  
ACAGAGACAGAAGTGCCTGGAATCTCAAAGGCAGAACCAAGAAACCCCAAACCTAAAGTTGAGCCCCGTGTC  
CAAGGTCAAAGGCGAAGATGCAAAGTCCCAGGTATGGGCCTTACATACACCCAGCAGATCCTCCAGGAGGAGCT  
GTGCCTGTCAGTCATCACCTTGTTCCTGGCGCCCCAGTGGTTCTTGTCTTTGCAAGAATGGAGATGACCGACA  
GCAATGGACCAAACTGGTTCCACATCGAGCACATAGCATCCACCTCTGCCTCGATACAGATATGTTCCGGTGA  
TGGCACCGAGAACGCAAGGAAATCGTCGTCAACCCATGTGAGTCCTCACTCATGAGCCAGCACTGGGACATGGT  
GAGCTCTTGAGGACCCCTGCCAGAAGCAGCAAGGGCCATGGGGTGGTGTCTCCCTGGACCAGAACAGACTGGAAA  
CTGGGCAGCAAGCAGCCTGCAACCACCTCAGACATCCTGGACTGGGAGGTGGAGGCAGAGCCCCCAGGACAGGA  
GCAACTGTCTCAGGGAGGACAGAGGAAAACATCACAAGCCAATGGGGCTCAAAGACAAATCCCACATGTTCTCAA  
GGCCGTAAAGTTCAGTCCTGGCCAGTCATTCCCTGATTGGTATCTGGAGACAGAAACCTAATGGGAAGTGTTTA  
TTGTTCTTTTCTACAAAGGAAGCAGTCTCTGGAGGCCAGAAAGAAAAGCCTTCTTTTTCTACTAGGCCAGGACT  
ACATTGAGAGATGAAGAATGGAGGTGTTTCCAAAAGAAATAAAGAGAAACTTAGAAGTTGTCTCTGG

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**FIGURE 720**

MRRLTRRLVLPVFGVLWITVLLFFWVTKRKLEVPTGPEVQTPKVWSLFFKVAGMSPWAPQVPVSPTPPYQRGHL  
TGGHLAVCHFPCLLQEAQFHLQTQVFLQVRCTLLVYCTDLPPTSIIITFHNEARSTLLRTIRSVLNRTPTHIRE  
IILVDDFSNDPDDCKQLIKLPKVKCLRNÑERQGLVRSRIRGADIAQGTTLTFLDSHCEVNRDWLQPLLHRVKEDY  
TRVVCVIDIINLDTFTYIESASELRGGFDWSLHFQWEQLSPEQKARRLDPTPIRTPIIAGGLFVIDKAWFDYL  
GKYDMDMDIWGGENFEISFRVWMC GGSLEIVPCSRVGHVFRKKHPYVFPDGNANTYIKNTKRTAEVWMDEYKQYY  
YAARPFALERPFGNVESRLDLRKNLRCQSFKWYLENIYPELSIPKESSIQGNIRQRQKCLSQRQNNQETPNLK  
LSPCAKVKGEDAKSQVWAFYYTQQILQEELCLSVITLFPAPVVLVLCKNGDDRQWTKTGSHIEHIAASHLCLDT  
DMFGDGTENGKEIVVNPCESSLMSQHWMVSS

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**FIGURE 721**

GGTGTTCACTCAACTTGGATCTGTGCTGAAAAATTGTGACATTTTCAGTACATCTGGTAGAGGGTACAGCTTTTAT  
CTTGACATGAATTTTTTGATGTTCTTCCTGTGCATAAATTCAGAAAACACCACAGGGATGGCGAGAAGTATTT  
GTTGACATTGATCCACAGGTTTCTGATAAACTGAGGTTTGTTTTGGCACCTTCTGCCACCCCAGCAGAAGCCTTC  
ATACAACATGACGAAACAAGGGATCATGTTGAAGTGTGTCTGATGCTGGTGTATCATCGAGGAACCTTTCTCAA  
CGCATTGCATTAACTGGAGGTGCTGCACTGGTTGCTGATTATGGTCATGATGGAACAAAGACAGATACCTTCAGA  
GGGTTTTGCGACCACAAGCTTCATGATGTCTTAATTGCCCCAGGAACAGCAGATCTAACAGCTGATGTGGACTTC  
AGTTATTTGCGAAGAATGGCACAGGGAAAAGTAGCCTCTCTGGGCCCAATAAAACAACACACATTTTTAAAAAAT  
ATGGGTATTGATGTCCGGCTGAAGGTTCTTTTAGATAAATCAAATGAGCCATCAGTGAGGCAGCAGTTACTTCAA  
GGATATGATATGTTAATGAATCCAAAGAAGATGGGAGAGAGATTTAACTTTTTGCCTTGCTACCTCATCAGAGA  
CTTCAAGGTGGAAGATATCAGAGGAATGCACGTCAGTCAAACCCTTTGCATCCGTTGTAGCTGGGTTTAGTGAA  
CTTGCTTGGCAGTGATATTTTCAGCTTGGACATTTTACCCTTCAGTCGGCCCAAGAAATCAAATAAAGGAAACAC  
ATTTTCATATACTGCAGGTAACAAAAGTCAAAGTATTTTATCTTTTCACAGCAAGAACAGTCCATGTTGTATATAA  
TACAACCAACATTATAGAACTTTTAGGGTTGTGACTGGCTTTGGTGCAAATGTGTGCTCAAGCTAATAAGTTATT  
GTGAAACTGAGTTTCCTTTAACTTACAAAGCTAGTTGCCATATTTCTATTTTATTTTAAAAAGTAAACATGCGGC  
TGGGCGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGCATATCACCTGAGGTCAGCAGT  
TAAAGACCAGCCTGACCAAAATGGAGAAACCCCATCTCTACTAAAAATACAAAACCTAGCCGGGTATGGTGGTACA  
TGCTTGTAATCCCAGC

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**FIGURE 722**

MAQGKVASLGPIKQHTFLKNMGIDVRLKVLLDKSNEPSVRQQLLQGYDMLMNPKKMGERFNFFALLPHQRLQGGR  
YQRNARQSKPFASVVAGFSELAWQ

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**FIGURE 723**

CTTCTCTCGCCAGGCATCCTCGTGGAAGTGACATCGTCTTTAAACCCTGCGTGGCAATCCCTGACGCACCGCGGT  
GATGCCCCAGGGAAGACAGGGCGACCTGGAAGTCCAACCTACTTCCTTAAGATCATCCAACCTATTGGATGATTATCC  
AAAATGTTTCATCGTGGGAGCAGACAATGTGGGCTCCAAGCAGATGCAGCAGATCCGCATGTCCCTTCGCGGGAA  
GGTCGTGGTGCTGATGGGCAAGAACACCATGATGCGCAAGGCCATCCGAGGGCACCTGGAAAACAACCCAGCTCT  
GGAGAACTGCTGCCTCATATCTGGGGGAATGTGGGCTTTGTGTTACCAAGGAGGACCTCACTGAGATCAGGGA  
CATGTTGCTGGCCAATAAGGTGCCAGCTGCTGCCCCGTGCTGGTGCCATTGCCCCATGTGAAGTCACTGTGCCAGC  
CCAGAACACTGGTCTCGGGCCCGAGAAGACCTCCTTTTTCCAGGCTTTAGGTATCACCACTAAAATCTCCAGGGG  
CACCATTGAAATCCTGAGTGATGTGCAGCTGATCAAGACTGGAGACAAAGTGGGAGCCAGCGAAGCCACGCTGCT  
GAACATGCTCAACATCTCCCCCTTCTCCTTTGGGCTGGTTCATCCAGCAGGTATTCGACAATGGCAGCATCTACAA  
CCCTGAAGTGCTTGATAAAACAGAGGAACTCTGCATTCTCGCTTCCTGGAGGGTGTCCGCAATGTTGCCAGTGT  
CTGTCTGCAGACTGGCTACCCAACTGTTGCATCAGTACCCCATCTATCATCAACGGGTACAAACGAGTCCTGGC  
CTTGTCTGTGGAGACGGATTACACCTTCCCCTTCTGCTGAAAATGTCAAGGCCTTCTTGGCTGATCCATCTGCCTT  
TGTGGCTGCTGCCCCCTGTGGCTGCTGACACCACAGCTGCTCCTGCTGCTGCTGCAGCCCCAGCTAAGGTTGAAGC  
CAAGGAAGAGTCGGAGGAGTCGGACGAGGATATGGGATTTGGTCTCTTTGACTTAATCACCAAAAAGCAACCAACT  
TAGCCAGCTTTATTTGCAAAACAAGGAAATAAAGGCTTACTTCTTT

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**FIGURE 724**

MPREDRATWKSNYFLKIIQLDDYPKCFIVGADNVGSKQMQQIRMSLRGKVVLGKNTMMRKAIRGHLENNPAL  
EKLLPHIWGNVGFVFTKEDLTEIRDMLLANKVPAAARAGAIAPCEVTVPAQNTGLGPEKTSFFQALGITTGISRG  
TIEILSDVQLIKTGDKVGASEATLLNMLNISPFSGGLVIQQVFDNGSIYNPEVLDKTEETLHSRFLEGVRNVASV  
CLQTYPTVASVPHSIINGYKRVLALSVETDYTFPLAENVKAFLADPSAFVAAAPVAADTTAAPAAAAAPAKVEA  
KEESESEDEDMGFGLFD

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**FIGURE 725**

GTCTTTAAACCCTGCGTGGCAATCCCTGACGCACCGCGTGATGCCCAGGGAAGACAGGGCGACCTGGAAGTCCA  
ACTACTTCCTTAAGATCATCCAACCTATTGGATGATTATCCAAAATGTTTCATCGTGGGAGCAGACAATGTGGGCT  
CCAAGCAGATGCAGCAGATCCGCATGTCCCTTCGCGGGAAGGTCGTGGTGCTGATGGGCAAGAACCCATGATGC  
GCAAGGCCATCCGAGGGCACCTGGAAAACAACCCAGCTCTGGAGAACTGCTGCCTCATATCTGGGGGAATGTGG  
GCTTTGTGTTACCAAGGAGGACCTCACTGAGATCAGGGACATGTTGCTGGCCAATAAGGTGCCAGCTGCTGCCC  
GTGCTGGTGCCATTGCCCCATGTGAAGTCACTGTGCCAGCCAGAACACTGGTCTCGGGCCCGAGAAGACCTCCT  
TTTTCCAGGCTTTAGAGTGATGTGCAGCTGATCAAGACTGGAGACAAAGTGGGAGCCAGCGAAGCCACGCTGCTG  
AACATGCTCAACATCTCCCCCTTCCTTTGGGCTGGTCATCCAGCAGGTATTGACAATGGCAGCATCTACAAC  
CCTGAAGTGCTTGATAAAACAGAGGAACTCTGCATTCTCGCTTCCTGGAGGGTGTCCGCAATGTTGCCAGTGTC  
TGTCTGCAGACTGGCTACCCAACCTGTTGCATCAGTACCC



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**FIGURE 726**

CTGCGTGGCAATCCCTGACGCACCGCCGTGATGCCCAGGGAAGACAGGGCGACCTGGAAGTCCAACACTTTCCTT  
AAGATCATCCAACCTATTGGATGATTATCCAAAATGTTTCATCGTGGGAGCAGACAATGTGGGCTCCAAGCAGATG  
CAGCAGATCCGCATGTCCCTTCGCGGGAAGGTCGTGGTGCTGATGGGCAAGAACACCATGATGCGCAAGGCCATC  
CGAGGGCACCTGGAAAAACAACCCAGCTCTGGAGAACTGCTGCCTCATATCTGGGGGAATGTGGGCTTTGTGTTC  
ACCAAGGAGGACCTCACTGAGATCAGGGACATGTTGCTGGCCAATAAGGTGCCAGCTGCTGCCCGTGCTGGTGCC  
ATTGCCCCATGTGAAGTCACTGTGCCAGCCCAGAACACTGGTCTCGGGCCCGAGAAGACCTCCTTTTTCCAGGCT  
TTAGGTATCACCCTAAAAATCTCCAGGGGCACCATTTGAAATCCTGACAGGTATTCGACAATGGCAGCATCTACAA  
CCCTGAAGTGCTTGATAAAACAGAGGAACTCTGCATTCTCGCTTCCTGGAGGGTGTCGCAATGTTGCCAGTGT  
CTGTCTGCAGACTGGCTACCCAACCTGTTGCATCAGTACCCATTCTATCATCAACGGGTACAAACGAGTCCTGGC

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**FIGURE 727**

CCTCTAGCTTAGCGAGCGCTGGAGTTTGAAGAGCGGGCAGTGGCTGCACACGCCAAACTTTCCCTATGGCTTCGG  
TGACCAGGGCCGTGTTTGGAGAGCTGCCCTCGGGAGGAGGGACAGTGGAGAAGTTCCAGCTGCAGTCAGACCTCT  
TGAGAGTGGACATCATCTCCTGGGGCTGCACGATCACAGCCCTAGAGGTCAAAGACAGGCAGGGGAGAGCCTCGG  
ACGTGGTGCTTGGCTTCGCCGAGTTGGAAGGATACCTCCAAAAGCAGCCATACTTTGGAGCAGTTATTGGGAGGG  
TGGCCAACCGAATCGCCAAAGGAACCTTCAAGGTGGATGGGAAGGAGTATCACCTGGCCATTAACAAGGAACCCA  
ACAGTCTGCATGGAGGAGTCAGAGGGTTTGATAAAGTGCTCTGGACCCCTCGGGTGCTGTCAAATGGCGTCCAGT  
TCTCGCGCATCAGTCCAGATGGTGAAGAAGGCTACCCCGGAGAGTTAAAAGTCTGGGTGACATACACCCTGGATG  
GCGGAGAGCTCATAGTCAACTACAGAGCACAAGCCAGTCAGGCCACACCAGTCAACCTGACCAACCATTCTTACT  
TCAACCTGGCAGGCCAGGCTTCCCAATATAAATGACCATGAAGTCACCATAGAAGCGGATACTTATTTGCCTG  
TGGATGAAACCTGATTCTACAGGAGAAGTTGCCCCAGTGAAGGCACTGCATTGACCTGAGAAAGCCAGTGG  
AGCTTGGAAAACCTGCAGGACTTCCATCTCAATGGTTTTGACCACAATTTCTGTCTGAAGGGATCTAAAGAAA  
AGCATTTTTGTGAAGGGTGCATCATGCTGCAAGCGGGCGGGTACTAGAAGTATACACCACCCAGCCCGGGTCC  
AGTTTTACACGGGCAACTTCCTGGATGGCACATTAAAGGGCAAGAATGGAGCTGTCTATCCCAAGCACTCCGGTT  
TCTGCCTGGAGACTCAGAACTGGCCTGATGCAGTCAATCAGCCCCGCTTCCCTCCTGTGCTGTCTGAGGCCTGGTG  
AGGAGTATGACCACACCACCTGGTTCAAGTTTTCTGTGGCTTAAGGAAGTGTGAAGATATGATCCAGTCCAGGGC  
TAGGCTCAGCCACCTGTCTCCTGTCCAGAAAAAGGTGAAGATTAAGAAGCTTTCAGAAATGATTCTATGGATTAA  
AATCATACAAATGGTGGCTGTTCTGAGAATCAGTCTGGGTATTGATTTCTTTTCCAGTGAAGTCCAGGCCA  
TGTCTAATGACCAGCTCGATTCCCTGTGCAGTTTACAGAGCAAGTGAACCAACCAACAATGTCGTCTATCTAAGC  
CCTGACCCTAGCCAGGGACTCCCATGCTGCTGTTGGCTCCATCTCTCCACACTGCCTCTTTCTTTTCAACTTTTT  
GCCCTTCTTTCTTTAAAGCTATTCTCACATTGCTTTTATTTTCTCTCCTTCACTTCAACCACTGTCTAGCAGC  
ACTCTGGAGTTTTCAAATGTACATTAGCCTCACCCTGCATGCTAGGAGATGGACCTGTCTCTATACAGCAGTAG  
ATGATTGATAAGTGAAGAACTGAGGCTTACAGAGGTTGAAGACCAACAAGCTAATAAATAAAAAGTTGAGGCCG  
GGCAGGCTGGCTCACGCCTGTAATCCCAGCACTTTGGAAGGCCGAGGCAGGCGGATCACGAGGTCAGGAGATCGA  
GACCATCTGGCTAACACGGTGAACCCCGTCTCTACATAAAAAATTAGCTGGGTGTGGTAGCACGCACCCGTAG  
TTCCAGCTACTTGGGAGGCTGAAGCAGGAGAATCGCTTGAACCTGGGAGGTGGAGGTTGCAGTGAGCCGAGATCA  
TGCCACTGCCTGGGCAACAGAGCAAACTCGATCTCAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 728**

MASVIRAVFGELPSGGGTVEKFQLQSDLLRVDIISWGCTITALEVKDRQGRASDVVLGFAELEGYLQKQPYFGAV  
IGRVANRIAKGTFKVDGKEYHLAINKEPNSLHGGVVRGFDKVLWTPRVLSNGVQFSRISPDGEEGYPGELKVWVTY  
TLDGGELIVNYRAQASQATPVNLTNHSYFNLAGQASPNINDHEVTIEADTYLPVDETLIPTGEVAPVQGTAFDLR  
KPVELGKHLQDFHLNGFDHNFCLKGSKEKHFCARVHHAASGRVLEVYTTQPGVQFYTGNFLDGTLKGKNGAVYPK  
HSGFCLETQNWPDVAVNQPRFPPVLLRPGEEDHTTWFKFSVA

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**FIGURE 729**

GACTTCAGGAAAAATCAACCCAGCACCAGCAGCTACCAACCACCATTCCATCTCTTCACTTGAACAGCATTAGTT  
AAGTCCAGATGTGGGAACCCCTTCTCTTGGGAAGAAGTTCCTAATTGTGTCTCAGACCGGTGTAAACAAACCAGCCA  
GCCGCCACCTTGCTAAACCTATAAGCTTTTTTAAATCCAATATATTCTGCCAAGAATATGCCTTGATAGTTAGCC  
CTCAGCCCATAGGTGTTTTTTGTTTTTAAACAGAATTATATATGTCTGGGGGTGAAAAACCCCTTGCATTCCAAA  
GGTCCATACTGGTTACTTGGTTTTCAATGCCACCCTTAGTGGATGTTTCACTTTAGAACCATTTTGTCTGCTCCCT  
CTGGAAGCCTTGCGCAGAGCTTACTTTTGAATTGTTGGAGAATAACTGCTGAATTTTAGCTGTTTTGAGTTGAT  
TCGCACCCTGCACCACAACCTCAATATGAAAACCTATTTAACTTATTTATTATCTTGTGAAAAGTATACAATGAAA  
ATTTTGTTCATACTGTATTTATCAAGTATGATGAAAAGCAATAGATATATATCTTTTATTATGTTAAATTATGA  
TTGCCATTATTAATCGGCAAAATGTGGAGTGTATGTTCTTTTACAGTAATATATGCCTTTTGTAACTTCACCTG  
GTTATTTTATTGTAAATGAGTACAAAATTCTTAATTTAAGAGATTGTATGTAATATTTATTTTCAATTTTCTTT  
CCTTGTTTACGTAAATTTTGAAAGATTGCATGATTTCTTGACAGAAATCGATCTTGATGCTGTGGAAGTAGTTG  
AGGAACATCCTATGAGTTTTCTTAGAATGTATAAAGGTTGTAGCCCATCCAACCTCAAAGAAAAAATGACCACA  
TACTTTGCAATCAGGCTGAAATGTGGCATGCTTTTCTAATTCCAACCTTTATAAACTAGCAAAAAAGTGTGCTT  
ATTCCACCAGTTCTACTGTGACATACTCGAGTATAAAGACATGTAGCAATAACGGGGAGTGGGGGGGAGTCTCA  
CAGTGCCTTTGGAAGGGCCCGAACTTGCCTTAAATCTTCCTCAACCAATAAGTATTTTATTAGTCTTGAGAGA  
ATCTGAATGTAGGATGGGTTCAACTGCACAAAAGGAAAAGATTTTACCACCTTTTTTATATAGATATAAAGTGA  
AGCAACCGCCTTAGTGCTGAAATATGTAGTACATGAATATGCCTTGTTTAAATTACAGAAAATTCCTTCCTGGACA  
GCAGATGAATGAGCGGTAGCTTTAGTTTGTACGTAGGTACAGTTGGAGCACTATATGTACTCTCTGGACTACTTT  
GGACAGAAGTAGGTTTTTGAATGTAACAAGATAAGTCAACTTGAGTTGTAATATATTTTGGGGAATCAGCTCACT  
ACAAATTGTGACTGTAAACATTGTACTGTAAATGTTTTGTAGTT

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**FIGURE 730**

MWEPFSWKKFLIVSQTGVNKPASRHLAKPISFLKSNIFCQEYALIVSPQPIGVFCFLTelyMSGGEKTLAFQRSI  
LVTWFHCHHLVDVQFRTILSAPSGSLAQSLCNCWRITAEFLAVLS

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**FIGURE 731**

CCTGATTCTAGGCTGGTCACTACTCCGAGCCTGTGACGTTTGC GGCAGCCAGGCCGTCGACGATGCCAGTGAAA  
CTCTCTGGGAAATTGCAAAAGCTGAAGTGGAAAAAAGGGGAATTAATGGAAGTGAAGGTGATGGAGCTGAAATTG  
CAGAAAAATTTGTTTTCTTCATTGGCAGTAAAAATGGGGGAAAGACTACTATTATTCTAAGGTGTCTTGACAGAG  
ATGAACCACCAAAACCAACCTTAGCTTTGGAATATACATATGGAAGAAGAGCAAAAGGGCACAACACACCAAAAG  
ATATCGCTCACTTTTGGGAACCTCGGTGGAGGAACCTCTTTATTGGACTTAATCAGCATACCCATCACAGGTGACA  
CCTTACGGACGTTTTCTCTTGTTCTCGTTCTGGATCTTTCAAAACCTAATGATCTCTGGCCCACCATGGAAAATC  
TCTTGCAAGCCACAAAAGCCATGTAGACAAAGTGATAATGAAACTGGGAAAGACAAATGCTAAAGCAGTTTCTG  
AAATGAGACAGAAGATCTGGAATAATATGCCGAAGGATCATCTGATCATGAATTAATTGACCCATTTCCGGTAC  
CTCTGGTCATAATTGGAAGTAAATATGATGTTTTTTCAGGATTTTGAGTCTGAGAAGAGAAAGGTAATATGCAAGA  
CACTTCGATTTGTTGCACATTATTATGGAGCATCATTAAATGTTTACCAGTAAATCAGAAGCTCTATTACTAAAAA  
TACGTGGAGTTATCAACCAGTTGGCATTGGCATTGACAAAAGCAAATCAATATGTGTGGATCAGAATAAACCGC  
TGTTTATCACAGCAGGATTGGATTCTTTCCGGTCAAATAGGATCTCCTCCTGTTCTGAAAATGACATTGGAAAGC  
TTCATGCCCCACTCACCTATGGAGTTGTGGAAAAAAGTGATGAAAAGCTCTTCCACCAAGAGTATTAACACGC  
TGAAAGATATCAAGGACCTGCGAGAGATCCTCAGTATGCTGAAAATGAAGTCGATGAGATGAGAATTCAGAAGG  
ATCTGGAACCTGGAACAGTACAAAAGAAGTTCTTCCAAGTCTTGGAACAAATCGAGCTTGATTCTTGAACCTATT  
TCAATTATTGTATATTTATTCTTTCTTTTCCAAATACAAATAAGATTATACTGTGAATTAATCTATTGTGGCAATA  
TGTGAAGAAAGTTAAACTGTATAATTTGTTAAAGGACAAGCTGGATTTCTTGGACTAGTGCATCTCCCTGTATAT  
CTTGAAGCTTTTTTAAAAGGAAAAATTATTGTAGAACCACGTGTAATTTTTTTTTAAAATAAAAGAATCTTCTACTA  
CCTACCTCT

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**FIGURE 732**

MPSETLWEIAKAEVEKRGINGSEGDGAEIAEKVFVFFIGSKNGGKTTIILRCLDRDEPPKPTLALEYTYGRRAKGH  
NTPKDIAHFWEELGGGTSLLDLISIPITGDTLRTFSLVLVLDLSKPNDLWPTMENLLQATKSHVDKVIMKLGKTNA  
KAVSEMRQKIWNMPKDHPDHELIDPFPVPLVIIGSKYDVFQDFESEKRKVICKTLRFVAHYYGASLMFTSKSEA  
LLLKIRGVINQLAFGIDKSKSICVDQNKPLFITAGLDSFGQIGSPVPENDIGKLHAHSPMELWKKVYEKLFPPK  
SINTLKDIKDPARDPQYAENEVDEMRIQKDLELEQYKRSSSKSWKQIELDS

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**FIGURE 733A**

ACATGCTCCTCCTGTCTTCTGGCGGAGCGTGCTTCCCGCTGCGGGGACGTTTCGAGCAATGGCAGCCCTGCTGAG  
ATCCGCGCGTTGGTTGCTGCGTGCCGGGGCGGCCCGCGCCTCCCGCTCTCCCTGCGCCTCCTCCCTGGCGGGCC  
GGGCGCGCTGCATGCCGCTCCTATCTGCCCGCCGCTCGCGCCGGGCCCGTGCGCGGAGGACTACTGAGCCACAGC  
CAGGCTGTATGCCATTGCTGCCAAAGAAAAAGATATTCAAGAGGAGTCCACTTTTTCTTCTAGGAAGATTTCCAA  
TCAGTTTGATTGGGCTCTAATGAGACTAGATCTTTCTGTTTCAAGAACTGGCCGCATTCCAAAGAAGCTTCTACA  
AAAAGTTTTTAATGATACCTGCCGCTCAGGTGGCCTAGGTGGTAGTCATGCCCTTGCTTCTACTACGTAGTTGTGG  
TTCTCTCTTGCCCTGAACATAAGCTTGAAGAGAGAACAGAATTTGCTCATAGGATATGGGACACACTTCAGAAATT  
AGGTGCTGTGTATGATGTGAGTCACTATAATGCTTTACTTAAAGTCTATCTTCAAAATGAATATAAAATTCTCACC  
AACTGATTTTCTGGCAAAAATGGAGGAAGCAAAACATTCAACCAATCGAGTGACATACCAGAGATTGATTGCTTC  
TTATTGTAATGTAGGAGATATTGAAGGTGCCAGCAAGATTCTTGGATTATGAAAATAAGGATCTCCAGTTAC  
AGAGGCAGTATTCAGTGCCCTTGTGACAGGGCATGCCAGAGCTGGTGATATGGAGAATGCAGAAAACATTCTCAC  
AGTGATGAGAGATGCCGGAATTGAGCCTGGTCCAGACACATACCTCGCATTATTGAATGCATATGCTGAGAAGGG  
CGACATTGACCATGTTAAGCAGACTCTGGAGAAGGTGGAGAAGTCCGAGCTTCACCTTATGGACCGTGATTTACT  
GCAAATTATTTTTAGCTTCAGTAAAGCTGGGTATCCTCAGTATGTCTCAGAAAATTTGGAAAAAGTTACATGTGA  
AAGAAGATATATTCCAGATGCAATGAACCTCATTTTTACTTTTAGTCACTGAAAAATTTGGAAGATGTAGCGTTGCA  
AATTTTACTAGCATGCCCGTATCAAAGGAAGATGGCCCAAGTGTCTTTGGCAGTTTCTTTTTACAACACTGTGT  
GACTATGAATACGCCGTGTGGAGAAGCTAACAGACTACTGTAAGAAGTTAAAGGAAGTCCAGATGCACTCCTTTCC  
TCTGCAGTTCACCTCCATTGTGCTTTACTCGCCAATAAACTGATTTGGCAAAAAGCCTTAATGAAGGCTGTGAA  
GGAGGAAGGTTTTCTATCAGACCTCACTATTTCTGGCCATTGCTAGTTGGACGTCGGAAGGAAAAAATGTTCA  
AGGTATAATTGAAATCCTCAAAGGAATGCAAGAATTGGGAGTACATCCTGATCAGGAAACATATACAGATTATGT  
GATTCCATGCTTTGATAGTGTAAGTCAAGCAGAGCCATTTTGCAAGAAAATGGATGTCTGTCTGATAGTGATAT  
GTTTTCTCAAGCTGGATTGAGAAGTGAAGCAGCAAAATGGGAACCTTAGACTTTGTATTATCATTTTTGAAATCAA  
TACATTGCCCATCTCGCTGCAGTCTATAAGAAGTAGCCTACTGCTAGGCTTCAGGAGGTCTATGAATATAAATCT  
TTGGAGCGAGATAACAGAATTGTTGTACAAGGATGGACGTTATTGCCAGGAGCCTCGAGGACCGACGGAAGCTGT  
TGGCTATTTTTCTTTATAACTTGATTGACAGCATGAGTGACTCAGAGGTACAGGCCAAGGAGGACATTGTAGACA  
ATACTTCCATCAGCTGGAGAAGATGAATGTAAAAATTCCTGAAAAATCTACAGAGGCATTCTGAATCTCCTGGA  
AAGCTACCATGTTCCGAAATTGATTAAAGGATGCTCACTTGTGGTTGAGAGTAAGAATTTAGACTTCAAAAAAC  
TGTGCAACTTACATCATCTGAATTGGAGTCCACACTTGAACACTAAAAGCTGAAAATCAACCTATAAGAGATGT  
CCTAAAGCAACTCATATTAGTGCTTTGTTTCAAGAGAAATATGCAAAAAGCCCTGAATTGAAAGCAAAATATGA  
ATCCGACATGGTTACTGGTGGCTATGCAGCTTTAATAAATTTATGCTGTGACATGATAAAGTAGAAGATGCCTT  
GAACTTGAAAGAAGAATTTGACCGCTTAGATTCACTGTCTGCTTGCCTTGACACCGCAAGTATGTAGGCCTTGTAAG  
AGTATTGGCAAAGCATGGCAAGCTCCAAGATGCTATTAACTTCTGAAGGAGATGAAAGAGAAGGATGTTCTTAT  
CAAAGATACAACAGCCTTGTCTTTTTCCACATGCTAAATGGCGCAGCTTTAAGAGGTGAAATTGAAACAGTAAA  
ACAGTTGCATGAAGCCATCGTGACTCTAGGGTTAGCAGAACCATCCACCAACATAAGTTTCCCATTTGGTCACTGT  
ACACTTGGAAGAGGGCGACCTATCTACTGCTCTTGAGGTGCGCATTGACTGCTATGAAAAGTATAAAGTATTACC  
AAGGATTCATGATGTCTTGTGTAACTGGTAGAGAAAGGCGAGACTGATCTAATTCAGAAAGCAATGGACTTTGT  
GAGCCAAGAACAAGGTGAAATGGTGATGCTCTATGATCTCTTCTTTGCCTTCTTACAAACAGGAAATTACAAAGA  
GGCCAAGAAGATCATTGAGACTCCAGGGATTAGAGCTCGATCTGCAAGGCTTCAGTGGTTTTGTGACAGATGTGT  
TGCAATAATCAGGTTGAACTCTGGAAAAATTAGTGGAGCTGACACAGAAGCTATTGAAATGTGATAGAGACCA  
GATGTACTACAATCTGTAAAATGTATAAAATAAACGGTGACTGGCAAAGAGCTGATGCAGTCTGGAATAAAAT  
CCAAGAAGAAAATGTTATCTCTCGTGAAAAGACATTAAAGATTATTAGCAGAAATCCTTAGAGAGGGTAACCAGGA  
AGTTCCGTTTGACGTACCTGAGTTGTGGTATGAAGATGAAAAACATTCCCTGAATTCTTCGTCAGCCTCAACCAC  
AGAACCTGATTTCCAGAAAGATATATTGATTGCCTGCCGATTGAACCAAAAAAAGGGGCATATGATATTTTCT  
GAATGCAAAAGAGCAAAACATTGTGTTTTAATGCTGAAACCTACAGCAATCTCATTAAATTACTGATGTGAGAAGA  
TTATTTTACACAAGCAATGGAAGTGAAGCATTTCGCGGAGACCCACATCAAGGGCTTCACACTGAACGATGCTGC  
CAACAGCCGCTCATCATAACGCAAGTTAGGCGGGATTATTGAAAGAGGCTGTGACAACACTGAAACAGTATT  
GGATCAGCAGCAGACCCCTTCTAGGTTAGCAGTGACCGGTGTCATCCAGGCATTGGCCATGAAGGGTGATGTTGA  
AAACATAGAAGTAGTTTCAAGATGTTAAATGGACTCGAAGACTCCATTGGACTTTCAAAAATGGTTTTTCATCAA



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**FIGURE 733B**

TAACATTGCTTTGGCTCAAATAAAGAATAATAACATAGATGCCGCAATAGAAAACATTGAAAATATGCTTACTTC  
AGAGAATAAAGTCATTGAACCCCAATACTTCGGCTTGGCATACTTATTCAGAAAAGTAATAGAGGAGCAGTTGGA  
ACCAGCAGTTGAAAAGAGTAACATCATGGCGGAGAGATTGGCCAATCAGTTTGCAATTTATAAACCTGTCACTGA  
TTTTTTCCTTCAACTTGTGGATGCAGGCAAGGTGGATGATGCCAGAGCTCTCCTACAGAGATGTGGTGCAATTGC  
TGAACAAACCCCGATTTTGTGTTGTTTCCTCCTTAGGAATTCTAGGAAACAAGGAAAGGCATCAACTGTGAAATC  
TGTGTTAGAATTGATTCCCTGAATTAAATGAAAAGGAAGAAGCATACAATTCCCTCATGAAAAGCTATGTCTCAGA  
GAAAGATGTACATCTGCTAAAGCACTGTATGAACATTTGACTGCAAAGAATACAAAATTGGATGATCTGTTTCT  
AAAGCGTTACGCATCTTTGCTGAAGTATGCTGGAGAGCCTGTCCCTTTCATTGAACCCCTGAAAGCTTTGAATT  
TTATGCACAGCAGCTAAGAAAATTGAGGGAAAACCTCTTCTTGAAATAACCAGGCGATACTTTGTTTTGTATATAT  
TTGTGATTCTGTGTCTACAIGTTATTTTGAAGTATATCTGAGGGAAAAATAAATGAAAATTTTCTTTATGTACTT  
ATGTATGTGTGATGCATGTTCAAAGTCTTATTGACCATAACTCTGTGCACTTGGTTATTGGACATTTTGGAGTT  
TTTTTCTCTGGGAAAAATCGATAGTGTTTTCTTCAATGCTGCTGCTGTGTGAAGCCATACTTTTTTCAGGATTCTT  
CCCTAATTGGCTCTTTGGTTTTCCCTGCTCTGTTTCATTTATTTTATTAAATGTTATTCTTTATTTAAGATTCT  
ACTTATTAGTCTGCTGTTTCTCTGAAAAATTTTAGAGCTAGGTATAGTGACCGTGAACCTTTCTAACGCATAATAT  
TCTGTGATACAGCCATTCCGTACATGTGTGAAGTCCTGCATAACTTTTGAACCTTTGTTAAATGTTGGCACTAGGA  
GTCATCAGATCTAGGCTTCATCATTTTCCAGTGAGAAGCAGAGACCCAAAGGGCCTGTTACTTGTGCTTGGTCAG  
GGGACTGTCTGTATGCCTGGAGGCTCTTCGGCACACTTCCCATCTTTCCCTTCTGCCACTGTGGCTTCAAGCA  
CCTCTGTTTCATAGAGCGTCTCTGAAATTGAGTCTCGGTCATGACTTATCCCGAAGTAGAGCAATGTGTTTCTCT  
CATTGTAGTTTCAAGGACTTTGTGAGTACAAGCTCTGCCCTAGGCTTGTTACTTTATACTCATATCCTGAAAAGAT  
GTGATTCATCTATGAAGGGGTAAAATATTGGTTTGTATTTAATTGTTTGAAATAAAAAGTGATCCCTATATTG

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**FIGURE 734**

ATGGGCTCAGGCTACACCAAGGCCGTGTACCGGGTCCGCCTGCCCGGCGGTGCCGCGGTGGCGCTCAAGGCGGTG  
GACTTTAGCGGGCCACGATCTGGGCAGCTGCGTGCGCGAGTTCGGGGTACGGAGGGGCTGCTATCGGCTGGCGGCC  
CACAAGCTGCTTAAGGAGATGGTGCTGCTGGAGCGGCTGCGGCACCCCAACGTGCTGCAGCTCTATGGCTACTGC  
TACCAGGACAGCGAGGACATCCCAGACACCCTGACCACCATCACGGAGCTGGGCGCCCTGTAGAAATGATCCAG  
CTGCTGCAAACTTCCTGGGAGGATCGATTCCGAATCTGCCTGAGCCTGGGCGCCCTCCTCCACCACCTGGCCAC  
TCCCCACTGGGCTCCGTCACCTCTGCTGGACTTCCGCCCTCGGCAGTTTGTGCTGGTGGATGGGGAGCTCAAAGTG  
ACGGACCTGGATGACGCACGTGTGGAGGAGACGCCGTGTGCAGGCAGCACCGACTGCATACTCGAGTTTCCGGCC  
AGGAACTTCACCCTGCCCTGCTCAGCCCAGGGCTGGTGCGAGGGCATGAACGAGAAGCGGAACCTCTATAATGCC  
TACAGGTTTTTCTTCACATACCTCCTGCCTCAGAGTCCCCCGCCTTCACTGCGTCCTCTGCTGGACAGCATCGTC  
AACGCCACAGGAGAGCTCGCCTGGGGGGTGGACGAGACCCTGGCCCAGCTGGAGAAGGTGCTGCACCTGTACCGG  
AGCGGGCAGTATCTGCAGAACTCCACGGCAAGCAGCAGTACCGAGTACCAGTGTATCCCAGACAGCACCATCCCC  
CAGGAAGACTACCGCTGCTGGCCATCCTACCACCACGGGAGCTGCCTCCTTTTCACTGTTCAACCTGGCTGAGGCT  
GTGGATGTCTGTGAGAGCCATGCCCAGTGTGGGCTTTGTGGTCACCAACCAGACCACCTGGACAGGTGCGGCAG  
CTGGTCTTTTTCAAGACTGGATGGAGCCAAGTGGTCCCTGATCCCAACAAGACCACATATGTGAAGGCCTCTGGC  
TGA

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**FIGURE 735**

MSGYTKAVYRVRLPGGAVALKAVDFSGHDLGSCVREFGVRRGCYRLAAHKLLKEMVLLERLRHPNVLQLYGYC  
YQDSEDIPDTLTTITELGAPVEMIQLLQTSWEDRFRICLSLGRLLHHLAHSPLGSVTLLDFRPRQFVLVDGELKV  
TDLDDARVEETPCAGSTDCILEFPARNFTLPCSAQGWCEGMNEKRNLYNAYRFFFTYLLPHSAPPSLRPLLDIV  
NATGELAWGVDETLAQLEKVLHLYRSGQYLQNSTASSSTEYQCIPDSTIPQEDYRCWPSYHHGSCLLSVFNLAEA  
VDVCESHAQCRAFVVTNQTWTGRQLVFFKTGWSQVVPDPNKTTYVKASG

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**FIGURE 736**

GCTAACATCCCAGACAGACAGATGTGACCAGGACAAACGTGCAATAATGCCAAATGTTAAATGTGAGTTTACCA  
GCCTAGCTATGGGACTGCTGGCTCCTAGTCCAGGAATCATGGGGGTATGACTGCCTCTCCAACCTGTGGGCTGT  
AAGCAAGCTCAGGCTAGTCTCCCCACTGGGGGCTGTGCCCTCCCTGGGACGGTTCCGTGGGCAGCCCCATCACT  
GTGTTCAATAGTGTGAGAATGTAGCTGCGTGGGGACAATCCATCGTGGAGTGTCTCTCAGCTTAGGTCTGGACA  
GGAGACTTGGCGGGAGATGCTCCAGGATGTGGGTGATTCTGTACCTGGGGAGGCTATCTCTGACCTCCCGACAGG  
GGACTCTCCAGGCCAGCCAGGGGTGAGGGGCAGAGGTGCACACCTCAGCATGAGCCAAGACTGGGGTCAGGGA  
GCAGGTGTGGTTTGAGCCAGGACCTGGGGCGGGGGTGGGGCCGGGGCCTTTCTGCCTCATTGTCTTCAATGAAA  
GCCTCAAAGCAGCCAAAACCAGGCTTTCCCCCTTCCTCGAGTTTGAATATCCAGAATCTTTGTACTTCTTGTTG  
GTTAAATTGTTTATTTTTGTAAAAATAAAATAAAATTAGTTAATAA

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**FIGURE 737**

MWVILYLGRSLTSRQGTLPGQPRGQGQRCTPQHEPRLGSGSRCGLSQDLGRGWGRGLSASFANESLKAAKTRL  
SPFLEFEYPESFVLLVG

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**FIGURE 738A**

AGATGACTTTGGGAAATTGCTGCTGGCTGAGGCCCTCCTGGAGCAGTGTGTTGAAGGAGAACCATGCCAAAATAAA  
AGACTCCATGCCTTTGCTGGAGAAGAATGAGCCGAAGATGAGCGAAGCCAAAATTATCTAAGCAGTATCCTTAA  
CCATGGGAGGCTCTCGCCACAGTACATGTGTGAGGCCATGCTGATCCTGGGCAAACCTGCATTACGTGGAGGGCTC  
ATACCGAGATGCCATCAGCATGTACGCACGGGCCGGGATTGATGACATGTCCATGGAGAACAAGCCCCGTGTATCA  
GATCGGGCTGCTGTCGGAGGCTTTTGTCAATCAAAGGCCTCTCTCTGGAACGCCCTACCCAACTCCATCGCCTCCCG  
CTTCCGCCTGACAGAGAGGGAGGAGGAAGTGATCACCTGTTTTGAGAGGGCCTCCTGGATCGCTCAGGTGTTCTCT  
GCAGGAATTGGAGAAGACCACAAATAACAGCACGTCGAGGCATCTGAAAGGCTGTACCCGCTTGACTATGAGCT  
CACCTACTTCTGGAAGCTGCCCTCCAGAGCGCCTATGTGAAAACCTGAAGAAGGGGAACATCGTGAAGGGCAT  
GAGAGAGCTCCGGGAGGTGCTGCGGACTGTGGAGACCAGCAACTCAGAACTTCAAAGTGATGGCGGCCAAGCA  
CCTGGCGGGGTCTGCTGCACCTCCCTGAGTGAGGAGTGCTACTGGAGCCCCCTGTCCACCCTCTGCCTGAGTT  
CATGGGCAAGGAGGAGAGTTCCTTTCCGCACTCAGGCCCTGCGGAAACCTCACCTCTATGAAGGAGACAACCTCTA  
CTGCCCCAAGGACAACATCGAGGAAGCCCTCCTGCTCCTCCTCATCAGCGAATCCATGGCAACTCGAGATGTGGT  
GCTGAGCCGGGTGCGGAGCAGGAGGAGGACCGGACAGTGAGCTTGCAGAATGCCGAGCCATCTATGACCTCCCT  
GAGCATCACGTTGGGCAGAAAGGGGACAGTACGTCATGCTCTCGGAGTGCTGAGCGAGCCATGAAGTTTGCCT  
TGGAGAATTTACCTTTGGTACCAGGTGGCCCTCTCCATGGTGGCTTGTGGGAAGTCAGCCTACGCTGTGTCCCT  
GCTGCGGGAGTGTTGAAGTTGCGGCCCTCGGACCCACCGTGCCCTGATGGCCGCGAAGGTCTGCATCGGGTC  
CCTTCGCTGGCTAGAGGAAGCAGAGCACTTTGCCATGATGGTGATCAGCCTCGGAGAGGAAGCCGGGGAGTTCTCT  
CCCCAAGGGCTACCTGGCTCTGGGTCTCACCTATAGCCTGCAGGCCACCGACGCCACCTGAAGTCCAAGCAAGA  
TGAATTGCACCGGAAGGCACTGCAGACGCTGGAGAGGGCTCAGCAGCTGGCGCCAGTGACCCAGGTTCATCCT  
CTATGTCTCGCTGCAGCTGGCCCTCGTCCGACAGATCTCCAGTGCCATGGAGCAGCTGCAGGAGCCCTGAAGGT  
ACGCAAGGATGATGCCACGCCCCTCCACCTGCTGGCACTGCTCTTCTCTGCCAGAAAGCACCACGATGCCCT  
GGATGTTGTCAACATGGCCATCACCGAGCACCCCTGAGAACTTCAACCTGATGTTTACCAAGGTGAAGCTGGAGCA  
GGTGCTGAAAGGCCAGAGGAAGCCCTCGTGACCTGCAGACAAGTGCTGAGGCTGTGGCAGACCCTGTACAGCTT  
CTCCAGCTGGGAGGCCTAGAAAAGGATGGCAGCTTCGGTGAGGGCCTCACCATGAAGAAGCAGAGTGGCATGCA  
CCTGACTTTGCCTGATGCCATGATGCAGACTCTGGCTCCCGCGGGCTTCGTCCATCGCCGCCTCCCGGCTGGA  
GGAGGCCATGTGAGAGCTGACTATGCCCTCTTCGGTCTGAGCAGGAGGCCCATGCAGCTGTGGACCAGCTGGA  
ACAGATCTGGCTGCAGGCTGCTGAGCTGTTTATGAGGAGCAGCAGCCTCAAGGAAGCAGGTTTCTGCATCCAGGA  
GGCGGGGGGCTCTTCCCACTTCTCACTCAGTACTCTATATGCGGGGCCGGCTGGCTGAGGTGAAGGGCAACCT  
GGAGGAGGCCAAGCAGCTGTACAAGGAGGCGCTCACGGTGAAACCCAGATGGCGTGCGCATCATGCATAGCCTGGG  
TCTGATGCTGAGTCGGCTGGGCCACAAGAGCTTGGCCAGAAAGGTGCTTCGTGATGCCGTGGAGAGGCAGAGTAC  
GTGCCACGAGGCGTGGCAGGGCCTGGGCGAGGTGCTGCAGGCCAGGGCCAGAACGAGGCTGCCGTTGACTGCTT  
CCTCACCGCCCTTGAGCTGAGGCCAGCAGCCCTGTACTGCCCTTCTCCATCATCCCCAGAGAGCTCTGACGACG  
CTGCAGCCGAGGGAGGGGCTGGCCAGAGGGAGAGGCAGCAGGGAACGTGGGTGAGGTTGGGCAACAGTG  
GCATCAGGTGCGGGGCTCAGGGAAATACATCTTTAGTGAACGCCCTCTGCAGCTGCAGCCCTCGTTCTCTGGCT  
GGGCCAAGAGGGCCTTCCCTGGATTTCTTTGTTGGTGCTTGGGAAACAGTCTGACTTGAACCCTAAGTGCCCTTG  
GAGAGTTTTGTGGTGACCAGACTTGCTCCCCAAGAGCTGGGCAGCGGGAGCCTCACAGCTGTCTTACCCTCA  
CCCATGCCCTCTGGCTTGGAGTCTGGGTGGGGGTTCTCACTCCCCACTCTCAGCACAGTACAGACTTCTGGATCT  
CTCTCAGGTCTTGCCAGGGCGGTCACAATGTGAAGAACTGCGGGCAAGTGGAAGACTATGAGATTTCTGGGT  
TCCCTTCTCAGACTTGGAGTTAGTAGATGATTCTGCACTGCCCCCTGCTTGGCCTCTGAGACCAGCTGGGCCCCA  
CCTTGCTCTTTCCCCCTGCTACCAAGTGCCCTTTGGGGTCTGACCAGGGGTAAGTACAGCCGCCCCAACACTTCC  
ATCTCCACCCACCCCATCTCCCTGGCGATGTGCTCCAGCCCAAGCAGCCTCCGTAGGCTTTAGATCCTGTGGTTG  
CTAGATCCAGTCCCTTTCTAATACCCTGAGTCAACACATTACTCTGCAGGTCTTAGGCTACAATGCAGGTCCCTT  
GAGGGCCACCAACATGGAGGTAGGCAGTTTCTAGGACTGTCCCCAGTACATCTCACCACCCACAGCCCTTTTTT  
GCCTTGATTGAGCCCTACCCCTGGCCTTTTGGCTTCCCTGCCTGAGAGAGACCTGAGGAGGGGACAGAGCCAG  
CCCCCTCTCTGTGGCTGAGCAGGCCTCTGTGTCCATGACACCTGTCTTCCGGGCTGGGGGCTGTGGGTGTATGT  
CCTCCCTACTGGCTTCCCCGGCCCCCTGCTGCATGATGCTCTTGGAACTCTTCTCCAAGGAGTCAGTCCCCAGGC  
CTATCAGGGGATCCTTTTGTATCTGCACTTTGGGTTTTAGTTTTCAAAGCTCCATCAGGTACAGCTTGCACTTCAG  
GATGTGTGAAAGCTCGGGTGAGGGCTGCCCTGGTTTCATCATAGCTCCACCTTCTCGGAAGGAGTGGGCTGTG

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**FIGURE 738B**

GAGACCCCCCATCCATGGCACACTAGCTCAGCACTGCATTTCCCGAGATGATTCCCAAGACAGCTGGTGCCTCCT  
GGCTTTTCTGTGCCAGGCCAAGGGGCACCACAGAGGACCCTGGATCCTTTGCCCTCTTCTTGGTTGAAGGATCTCT  
ATGTATGTGTATATAAATATAGTTTTTTATCTATATATAAAATAGAGATCTATTTTTTTTCTGGAATTCTG  
TTAGAAAAGTAAAGAAAAAGCAAATGCTGTTGGTTTATCTCAGGGTGCCCAAAGTGGTTATAGTCAATTTTGGT  
ACTAGGAAAGGCACCCAATGCATTTCTGACTTTTAAGCATTTCTTGTGGAAGCAGCAGAGGGCCAGGCCAAG  
TTGCTGACAGTGACTTTGCAGGTTGAATAAAGAAACCCTTGGAGGGGAAGCAGGCTTGTCTGAAGCAGCATGTAT  
ATTCACTGGGCATGTAGCTCCACACCAGCCTTGAGCCAGGCCCTGGACAGGAGGGGCTGTTGCAGGATGAGGGA  
GGCCAGAGAAGGCATCGAAGCCAAGACCTGGGCCCACCTGGGGAGGGATGTGGGAAAGGAAGGATGGGAGGGAGG  
ACCTCTGGGAAAATGTGGATTGAGCTGGTGAGAGTGTGCTAAGGCTGGGCTAAAGCCTGGAGAGGGTAGGAG  
GAGGCAAGAGGGGTCCAGGCAGGGCTGATCCTGGCCTCTGACCTGTCCAGGGCGACCCCTGAAGCCCCTGCTGCC  
TCTGGGCATTGCTGGGAGAGGCCAAGGCAGGACTCAGTCTGAACAGAGATCCCCTCGGGCATTGCTGATGGGCC  
ACCTTCAGCTGCAGGGAAGAAGCCTAGGAGAGGAGGCATGGGAGGGACCTGGGCCTTGTTTCAGATTGGCCACCTC  
TGCTGAGAAGTCCATACCAAGTACACCCCTAATAAGTTATGCCACATACCAACGTACTGTGGATATTATAACCTGC  
ATTAAACAACCTCTAAAGAACGCTGCTCATT

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**FIGURE 739**

MAAKGAHGSYLKVESELERCRAEGHWDRMPELVRQLQTLSPG GGGNRRGSPSAAFTFPD TDDFGKLLLA EALLE  
QCLKENHAKIKDSMPLEKNEPKMSEAKNYLSSILNHGR LSPQYMCEAMLILGKLHYVEGSYRDAIS MYARAGID  
DMSMENKPLYQMRLLSEAFVIKGLSLERLPNSIASRFR LTEREEVITCFERASWIAQVFLQELEKTINN STSRH  
LKGCHPLDYELTYFLEAALQSAYVKNLKKGNIVKGMRELREVLRTVETKATQNFKVMAAKHLAGVLLHSLSEECY  
WSPLSHPLPEFMGKEESSFATQALRKPHLYEGDNLYCPKDNIEEALLLLISESMATR DVVLSRVPEQEEDRTVS  
LQNAAAIYDLLSITLGRRGQYVMLSECLERAMKFAGFEH LWYQVALSMVACGKSAYAVSLLRECVKL RPSDPTV  
PLMAAKVCIGSLRWLEEAHFAMMVISLGEEAGEFLPKGYLALGLTYSLQATDATL KSKQDELHRKALQTLERAQ  
QLAPSDPQVILYVSLQALVRQISSAMEQLQEALKVRKDDAHALHLLALLFSAQKHHQH ALDVVNMAITEHPENF  
NLMFTKV KLEQVLKGPEEALVTCRQVLR LWQTLYSFSQLGGLKDGSGFEG LTMKKQSGMHLTL PDAHDADSGSR  
RASSIAASRLEEAMSELTMPSSVLKQGPMQLWTTLEQIWLQAAELFMEQQHLKEAGFCIQEAAGLFPTSHSVLYM  
RGR LAEVKGNLEEAKQLYKEALTVPDGV RIMHSLGLMLSRLGHKSLAQKVL RDAVERQSTCHEAWQGLGEVLQA  
QGQNEAAVDCFLTALELEASSPVLFFSIIPREL



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**FIGURE 740**

AGTCCGAGTGGAGAGAGCGAGCTGAGTGGTTGTGTGGTCGCGTCTCGGAAACCGGTAGCGCTTGCAGCATGGCTG  
ACCAACTGACTGAAGAGCAGATTGCAGAATTCAAAGAAGCTTTTTCACTATTGACAAAGATGGTGATGGAACATA  
TAACAACAAAGGAATTGGGAACTGTAATGAGATCTCTTGGGCAGAATCCACAGAAGCAGAGTTACAGGACATGA  
TTAATGAAGTAGATGCTGATGGTAATGGCACAATTGACTTCCCTGAATTTCTGACAATGATGGCAAGAAAAATGA  
AAGACACAGACAGTGAAGAAGAAATTAGAGAAGCATTCCGTGTGTTTGATAAGGATGGCAATGGCTATATTAGTG  
CTGCAGAACTTCGCCATGTGATGACAAACCTTGGAGAGAAGTTAACAGATGAAGAAGTTGATGAAATGATCAGGG  
AAGCAGATATTGATGGTGATGGTCAAGTAACTATGAAGAGTTTGTACAAATGATGACAGCAAAGTGAAGACCTT  
GTACAGAATGTGTTAAATTTCTTGTACAAAATTGTTTATTTGCCTTTTCTTTGTTTGTAACCTTATCTGTAAAAGG  
TTTCTCCCTACTGTCAAAAAAATATGCATGTATAGTAATTAGGACTTCATTCTCCATGTTTTCTTCCCTTATCT  
TACTGTCAATTGTCCTAAAACCTTATTTTAGAAAATTGATCAAGTAACATGTTGCATGTGGCTTACTCTGGATATA  
TCTAAGCCCTTCTGCACATCTAACTTAGATGGAGTTGGTCAAATGAGGGAACATCTGGGTTATGCCTTTTTTAA  
AGTAGTTTTCTTTAGGAACTGTCAGCATGTTGTTGTTGAAGTGTGGAGTTGTAACCTCTGCGTGGACTATGGACAG  
TCAACAATATGTACTTAAAAGTTGCACTATTGCAAAACGGGTGATTATCCAGGTACTCGTACACTATTTTTTTG  
TACTGCTGGTCCTGTACCAGAAACATTTCTTTTATTGTTACTTGCTTTTTTAACTTTGTTTAGCCACTTAAAAAT  
CTGCTTATGGCACAATTTGCCTCAAAATCCATTCCAAGTTGTATATTGTTTTCCAATAAAAAAATTACAATTT

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**FIGURE 741**

GGCGGGAAACAGCTTAGTGGGTGTGGGGTCGCGCATTTTCTTCAACCAGGAGGTGAGGAGGTTTCGACATGGCGG  
TGCAGCCGAAGGAGACGCTGCAGTTGGAGAGCGCGGCCGAGGTGGGCTTCGTGCGCTTCTTTCAGGGCATGCCGG  
AGAAGCCGACCACCACAGTGCGCCCTTTTCGACCGGGGCGACTTCTATACGGCGCACGGCGAGGACGCGCTGCTGG  
CCGCCCCGGGAGGTGTTCAAGACCCAGGGGGTGATCAAGTACATGGGGCCGGCAGGAGCAAAGAATCTGCAGAGTG  
TTGTGCTTAGTAAATGAATTTTGAATCTTTGTAAAAGATCTTCTTCTGGTTCGTGAGTATAGAGTTGAAGTTT  
ATAAGAATAGAGCTGGAAATAAGGCATCCAAGGAGAATGATTGGTATTGGCATATAAGGCTTCTCCTGGCAATC  
TCTCTCAGTTTGAAGACATTCTCTTTGGTAACAATGATATGTCAGCTTCCATTGGTGTGTGGGTGTTAAATGT  
CCGCAGTTGATGGCCAGAGACAGGTGGAGTTGGGTATGTGGATTCCATACAGAGGAACTAGGACTGTGTGAAT  
TCCCTGATAATGATCAGTTCTCCAATCTTGAGGCTCTCCTCATCCAGATTGGACCAAAGGAATGTGTTTACCCG  
GAGGAGAGACTGCTGGAGACATGGGGAACTGAGACAGATAATTCAAAGAGGAGGAATCTGATCACAGAAAGAA  
AAAAAGCTGACTTTTCCACAAAAGACATTTATCAGGACCTCAACCGTTGTTGAAAGGCAAAAAGGGAGAGCAGA  
TGAATAGTGCTGTATTGCCAGAAATGGAGAATCAGGTTGCAGTTTCATCACTGTCTGCGGTAATCAAGTTTATAG  
AACTCTTATCAGATGATTCCAATTTGGACAGTTTGAAGTACTACTTTTGAAGTTCAGCCAGTATATGAAATTTGG  
ATATTGCAGCAGTCAGAGCCCTTAACCTTTTTCAGGGTCTGTTGAAGATACCACTGGCTCTCAGTCTCTGGCTG  
CCTTGCTGAATAAGTGTAACCCCTCAAGGACAAAGACTTGTAAACCAGTGGATTAAAGCAGCCTCTCATGGATA  
AGAACAGAATAGAGGAGAGATTGAATTTAGTGGAGCTTTTGTAGAAGATGCAGAATTGAGGCAGACTTTACAAG  
AAGATTTACTTCGTGCGATTCCAGATCTTAACCGACTTGCCAAGAAGTTTCAAAGACAAGCAGCAAACTTACAAG  
ATTGTTACCGACTCTATCAGGGTATAAATCAACTACCTAATGTTATACAGGCTCTGGAAAAACATGAAGGAAAAAC  
ACCAGAAATTTGTTGGCAGTTTGTGACTCCTCTTACTGATCTTCGTCTGACTTCTCCAAGTTTCAGGAAA  
TGATAGAAACAACTTTAGATATGGATCAGGTGGAAAACCATGAATTCCTTGTAACCTTCATTGATCCTAATC  
TCAGTGAATTAAGAGAAATAATGAATGACTTGGAAAAGAAGATGCAGTCAACATTAATAAGTGCAGCCAGAGATC  
TTGGCTTGGACCTTGGCAAACAGATTAACTGGATTCCAGTGCACAGTTTGGATATTACTTTTCGTGTAACCTGTA  
AGGAAGAAAAAGTCTTCGTAACAATAAAACTTTAGTACTGTAGATATCCAGAAGAATGGTGTTAAATTTACCA  
ACAGCAAATGACTTCTTTAAATGAAGAGTATACCAAAAATAAAACAGAAATATGAAGAAGCCAGGATGCCATTG  
TTAAAGAAATGTCAATATTTCTTCAGGCTATGTAGAACCAATGCAGACACTCAATGATGTGTAGCTCAGCTAG  
ATGCTGTTGTGCTGCTTGTGCTCAGGTGTCAAATGGAGCACCTGTTCCATATGTACGACCAGCCATTTTGGAGAAAG  
GACAAGGAAGAATTATATTAAGCATCCAGGCATGCTTGTGTTGAAGTTCAAGATGAAATTCATTTATTCCTA  
ATATTGCAAAACCTGGGGTGATAGTACTCATGGCCCAATTTGGGTGTTTTGTGCCATGTGAGTCAGCAGAAGTGT  
CCATTGTGGACTGCATCTTAGCCCGAGTAGGGGCTGGTGACAGTCAATTGAAAGGAGTCTCCACGTTTCATGGCTG  
AAATGTTGGAACTGCTTCTATCCTCAGGTCTGCAACCAAAGATTCAATTAATAATCATAGATGAATTGGGAAGAG  
GAACTTCTACCTACGATGGATTGGGTAGCATGGGCTATATCAGAATACATTGCAACAAAGATTGGTGCTTTTT  
GCATGTTTGCAACCAATTTTCATGAACCTTACTGCCTTGCCAATCAGATACCAACTGTTAATAATCTACATGTCA  
CAGCACTCACCCTGAAGAGACCTTAAGTATGCTTTATCAGGTGAAGAAAGGTGTCTGTGATCAAAGTTTGGGA  
TTCATGTTGCAGAGCTTGCTAATTTCCCTAAGCATGTAATAGAGTGTGCTAAACAGAAAGCCCTGGAACCTGAGG  
AGTTTCAGTATATTGGAGAATCGCAAGGATATGATATCATGGAACCAGCAGCAAAGAAGTGCTATCTGGAAAGAG  
AGCAAGGTGAAAAAATTATTCAGGAGTTCTGTCCAAGGTGAAACAAATGCCCTTTACTGAAATGTCAGAAGAAA  
ACATCACAATAAAGTTAAACAGCTAAAGCTGAAGTAATAGCAAAGAATAATAGCTTTGTAAATGAAATCATT  
CACGAATAAAAGTTACTACGTGAAAAATCCAGTAATGGAATGAAGGTAATATTGATAAGCTATTGTCTGTAATA  
GTTTTATATTGTTTTATATTAACCTTTTCCATAGTGTTAACTGTGAGTGGCCATGGGCTATCAACTTAATAAG  
ATATTAGTAATATTTTACTTTGAGGACATTTTCAAAGATTTTATTTTGAAGAAATGAGAGCTGTAAGTGGAG  
TGTTTGAATTCAGATAGGCAATAATAAGTGTGCTGAATTTTATAAATAAAATCATGTAGTTTGTGG

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**FIGURE 742**

MAVQPKETLQLESAAEVGFVRFFQGMPEKPTTTVRLFDRGDFYTAHGEDALLAAREVFKTQGVIKYMGPAGAKNL  
QSVVLSKMNFEFVKDLLLVQRQYRVEVYKNRAGNKASKENDWYLAYKASPGNLSQFEDIILFGNNDMSASIGVGV  
KMSAVDQGRQVGVGYVDSIQKRLGLCEFPDNDQFSNLEALLIQIGPKECVLPGETAGDMGKLRQIIQRGGILIT  
ERKKADFSTKDIYQDLNRLKGGKGEQMNSAVLPemenQVAVSSLSAVIKFLELLSDDSNFGQFELTTDFDSQYM  
KLDIAAVRALNLFQGSVEDTTGSQSLAALLNKCKTPQGQRLVNQWIKQPLMDKNRIEERLNLVEAFVEDAELRQT  
LQEDLLRRFPDLNRLAKKFQRQAANLQDCYRLYQGINQLPNVIALEKHEGKHQKLLAVFVTPLTDLRSDFSKE  
QEMIETTLDMQVENHEFLVKPSFDPNLSELREIMNDLEKKMQSTLISAARDLGLDPGKQIKLDSSAQFGYYFRV  
TCKEEKVLRNNKNFSTVDIQKNGVKFTNSKLTSLNEEYTKNKTEYEEAQDAIVKEIVNISSGYVEPMQTLNDVLA  
QLDAVVSFAHVSNGAPVYVRPAILEKGQGRILKASRHACVEVQDEIAFIPNDVYFEKDKQMFHIITGPNMGGK  
STYIRQTGVIVLMAQIGCFVPCESAIVDCILARVGAGDSQLKGVSTFMAEMLETASILRSATKDSLIIIDEL  
GRGTSTYDGFGLAWAISEYIATKIGAFCMFATHFHELTALANQIPTVNNLHVTALTTEETLTMLYQVKKGVCDQS  
FGIHVAELANFPKHVIECAKQKALELEEFQYIGESQGYDIMEPAKKCYLEREQGEKIIQEFLSKVKQMPFTEMS  
EENITIKLKQLKAEVIAKNNSFVNEIISRIKVTT

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**FIGURE 743**

CTTTTGCGGGTGGCGGCGAACGCGGAGAGCACGCCATGAAGGCCTCGGGCACACTACGAGAGTACAAAGTAGTGG  
GTCGCTGCCTGCCCACCCCAAATGCCACACACCACCCCTCTACCGCATGCGAATCTTTGCGCCTAATCATGTCTG  
TCGCCAAGTCCCGCTTCTGGTACTTCGTATCTCAGTTAAAGAAGATGAAGAAGTCTTCAGGGGAGATTGTCTACT  
GTGGGCAGGTGTTTGAGAAGTTCCCCTTGCGGGTGAAGAACTTCGGGATCTGGCTGCGCTATGACTCCCGGAGCG  
GCACCCACAACATGTACCGGGAATACCGGGACCTGACCACCGCAGGCGCTGTCACCCGGTGCTACCGAGACATGA  
GCGCCCGGCACGGCGGCCGGGCCCCACTCCATTCAGATCATGAAGGTGGAGGAGATCGCGGCCAGCAAGTGCCGCC  
GGCCGGCTGTCAAGCAGTTCCACGACTCCAAGATCAAGTTCCCGCTGCCCCACCGGGTCTTGCGCCGTCAGCACA  
AGCCACGCTTACCACCAAGAGGCCCAACACCTTCTTAGGTGCAGGGCCCTCGCCCGGGTGTGCCCCAAATAA  
ACTCAGGAACGCCCC

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**FIGURE 744A**

ATTTCGCCAGCAGGAGCCGCGCGGTAGATGCGGTGCTTTTAGGAGCTCCGTCCGACAGAACGGTTGGGCCTTG  
CCGGCTGTCGGTATGTCGCGACAGAGCACCCTGTACAGCTTCTTCCCCAAGTCTCCGGCGCTGAGTGTATGCCAAC  
AAGGCCTCGGCCAGGGCCTCACGCGAAGGCGGCCGTGCGGCCGTGCCCCGGGGCCTCTCCTTCCCCAGGCGGG  
GATGCGGCCTGGAGCGAGGCTGGGCCTGGGCCAGGCCCTTGGCGCGATCCGCGTCACCGCCCAAGGCGAAGAAC  
CTCAACGGAGGGCTGCGGAGATCGGTAGCGCCTGCTGCCCCACCAGTTGTGACTTCTCACCAGGAGATTGGTT  
TGGGCCAAGATGGAGGGTTACCCCTGGTGGCCTTGTCTGGTTTACAACCACCCCTTTGATGGAACATTTCATCCGC  
GAGAAAGGGAAATCAGTCCGTGTTTCATGTACAGTTTTTGTATGACAGCCCAACAAGGGGCTGGGTTAGCAAAAGG  
CTTTTAAAGCCATATACAGGTTCAAAATCAAAGGAAGCCAGAAGGGAGGTCATTTTACAGTGCAAAGCCTGAA  
ATACTGAGAGCAATGCAACGTGCAGATGAAGCCTTAAATAAAGACAAGATTAAGAGGCTTGAATTGGCAGTTTGT  
GATGAGCCCTCAGAGCCAGAAGAGGAAGAAGAGATGGAGGTAGGCACAACCTTACGTAACAGATAAGAGTGAAGAA  
GATAATGAAATTGAGAGTGAAGAGGAAGTACAGCCTAAGACACAAGGATCTAGGCGAAGTAGCCGCCAAATAAAA  
AAACGAAGGGTCATATCAGATTCTGAGAGTGACATTGGTGGCTCTGATGTGGAATTTAAGCCAGACACTAAGGAG  
GAAGGAAGCAGTGATGAAATAAGCAGTGGAGTGGGGGATAGTGAGAGTGAAGGCCTGAACAGCCCTGTCAAAGTT  
GCTCGAAAGCGGAAGAGAATGGTGACTGGAAATGGCTCTCTTAAAAGGAAAAGCTCTAGGAAGGAAACGCCCTCA  
GCCACCAAAACAAGCAACTAGCATTTCATCAGAAACCAAGAATACTTTGAGAGCTTTCTCTGCCCTCAAAATTCT  
GAATCCCAAGCCCACGTTAGTGGAGGTGGTGATGACAGTAGTCGCCCTACTGTTTGGTATCATGAAACTTTAGAA  
TGGCTTAAGGAGGAAAAGAGAAGAGATGAGCACAGGAGGAGGCCTGATCACCCCGATTTTGTATGCATCTACACT  
TATGTGCCTGAGGATTTCTCAATTCTTGTACTCTGGGATGAGGAAGTGGTGGCAGATTAAGTCTCAGAACTT  
GATCTTGTCTGTTTACAAGGTGGGGAATTTTATGAGCTGTACCACATGGATGCTCTTATTGGAGTCAGTGAA  
CTGGGGCTGGTATTCATGAAAGGCAACTGGGCCATTCTGGCTTTCTGAAATTGCAATTGGCCGTTATTTCAGAT  
TCCCTGGTGCAGAAGGGCTATAAAGTAGCACAGTGGAAACAGACTGAGACTCCAGAAATGATGGAGGCACGATGT  
AGAAAGATGGCACATATATCCAAGTATGATAGAGTGGTGAAGGAGGAGATCTGTAGGATCATTACCAAGGGTACA  
CAGACTTACAGTGTGCTGGAAGGTGATCCCTCTGAGAACTACAGTAAGTATCTTCTTAGCCTCAAAGAAAAAGAG  
GAAGATTCTTCTGCCATACTCGTGATATGGTGTGTGCTTTGTTGATACTTCACTGGGAAAGTTTTTCATAGGT  
CAGTTTTCAGATGATCGCCATTGTTTCGAGATTTAGGACTCTAGTGGCACACTATCCCCAGTACAAGTTTTATTT  
GAAAAAGGAAATCTCTCAAAGGAACTAAAACAATTCTAAAGAGTTTCAATTGCTCTTCTTCAAGGAAGGTCTG  
ATACCCGGCTCCCACTTTTGGGATGCATCCAAAAGTTTGAGAACTCTCCTTGAGGAAGAATATTTTAGGGAAAAG  
CTAAGTGATGGCATTGGGGTGATGTTACCCAGGTGCTTAAAGGTATGACTTCAGAGTCTGATTCCATTGGGTTG  
ACACCAGGAGAGAAAAGTGAATTGGCCCTCTCTGCTCTAGGTGGTTGTGCTTCTACCTCAAAAAATGCCTTATT  
GATCAGGAGCTTTTATCAATGGCTAATTTGAAGAATATATTCCTTGGATTCTGACACAGTCAGCACTACAAGA  
TCTGGTGCTATCTTACCAAAGCCTATCAACGAATGGTGCTAGATGCAGTGACATTAAACAACCTTGAGATTTTT  
CTGAATGGAACAAATGGTTCTACTGAAGGAACCCCTACTAGAGAGGGTTGATACTTGCCATACTCCTTTTGGTAAG  
CGGCTCCTAAAGCAATGGCTTTGTGCCCACTCTGTAACCATTATGCTATTAATGATCGTCTAGATGCCATAGAA  
GACCTCATGGTTGTGCCTGACAAAATCTCCGAAGTTGTAGAGCTTCTAAAGAAGCTTCCAGATCTTGAGAGGCTA  
CTCAGTAAATTCATAATGTTGGGTCTCCCTGAAGAGTCAGAACCACCCAGACAGCAGGGCTATAATGTATGAA  
GAACTACATAACAGCAAGAAGAAGATTATTGATTTTTCTTTCTGCTCTGGAAGGATTCAAAGTAATGTGTAAAT  
ATAGGGATCATGGAAGAAGTTGCTGATGGTTTTAAGTCTAAATCCTTAAGCAGGTCATCTCTGTCAGACAAAA  
AATCCTGAAGGTCGTTTTCTGATTGACTGTAGAATTGAACCGATGGGATACAGCCTTTGACCATGAAAAGGCT  
CGAAAGACTGGACTTATTACTCCCAAAGCAGGCTTTGACTCTGATTATGACCAAGCTCTTGCTGACATAAGAGAA  
AATGAACAGAGCCTCCTGGAATACCTAGAGAAAACAGCGCAACAGAATTGGCTGTAGGACCATAGTCTATTGGGGG  
ATTGGTAGGAACCGTTACCAGCTGGAAATTCCTGAGAATTTCAACACTCGCAATTTGCCAGAAGAATACGAGTTG  
AAATCTACCAAGAAGGGCTGTAAACGATACTGGACCAAACTATTGAAAAGAAGTTGGCTAATCTCATAAATGCT  
GAAGAACGGAGGGATGATCATTGAAGGACTGCATGCGCGACTGTTCTATAACTTTGATAAAAATTACAAGGAC  
TGGCAGTCTGCTGTAGAGTGATCGCAGTGTGGATGTTTTACTGTGCTGGCTAACTATAGTCAGGGGGTGAT  
GGTCTATGTGTGCGCCAGTAATTCTGTTGCCGAAGATACCCCCCTTCTTAGAGCTTAAAGGATCACGCCAT  
CCTTGCAATTACGAAGACTTTTTTTGGAGATGATTTTATTCCTAATGACATTCTAATAGGCTGTGAGGAAGAGGAG  
CAGGAAAATGGCAAAGCCTATTGTGTGCTTGTACTGGACCAATATGGGGGGCAAGTCTACGCTTATGAGACAG  
GCTGGCTTATTAGCTGTAATGGCCAGATGGGTGTACGTCCCTGCTGAAGTGTGCAGGCTCACACCAATTGAT

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**FIGURE 744B**

AGAGTGTTTACTAGACTTGGTGCCTCAGACAGAATAATGTCAGGTGAAAGTACATTTTTTGTGAATTAAGTGAA  
ACTGCCAGCATACTCATGCATGCAACAGCACATTCTCTGGTGCTTGTGGATGAATTAGGAAGAGGTACTGCAACA  
TTTGATGGGACGGCAATAGCAAATGCAGTTGTTAAAGAACTTGCTGAGACTATAAAATGTCGTACATTATTTTCA  
ACTCACTACCATTTCATTAGTAGAAGATTATTCTCAAATGTTGCTGTGCGCCTAGGACATATGGCATGCATGGTA  
GAAAATGAATGTGAAGACCCAGCCAGGAGACTATTACGTTCTCTATAAATTCATTAAAGGGAGCTTGTCTAAA  
AGCTATGGCTTTAATGCAGCAAGGCTTGCTAATCTCCAGAGGAAGTTATTCAAAGGGACATAGAAAAGCAAGA  
GAATTTGAGAAGATGAATCAGTCACTACGATTATTTGGGAAGTTTGCCTGGCTAGTGAAAGGTCAACTGTAGAT  
GCTGAAGCTGTCCATAAATTGCTGACTTTGATTAAAGGAATTATAGACTGACTACATTGGAAGCTTTGAGTTGACT  
TCTGACCAAAGGTGGTAAATTCAGACAACATTATGATCTAATAAACTTTATTTTTTAAAAATGA

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**FIGURE 745**

MSRQSTLYSFFPKSPALSDANKASARASREGGRAAAAPGASPSPGGDAWSEAGPGPRPLARSASPPKAKNLNGG  
LRRSVAPAAFTSCDFSPGDLVWAKMEGYPWPCLVYNHPFDGTFIREKGKSVRVHVQFFDDSPTRGWVSKRLLKP  
YTGSKSKEAQKGGHFYSAPKPEILRAMQRADEALNKDKIKRLELAVCDEPSEPEEEEEEMEVTGTTYVTDKSEEDNEI  
ESEEVQPKTQGSRRSSRQIKRRVISDSSEDIGGSDVEFKPDTKEEGSSDEISSGVGDSESEGLNSPVKVARKR  
KRMVTGNGSLKRKSSRKETPSATKQATSISSETKNTLRAFSAPQNSESQAHVSGGGDDSSRPTVWYHETLEWLKE  
EKRRDEHRRRPDHPDFDASTLYVPEDFLNSCTPGMRKWWQIKSQNFDLVICYKVGKFYELYHMDALIGVSELGLV  
FMKGNWAHSGFPEIAFGRYSDSLVQKGYKVARVEQTETPEMMEARCRKMAHISKYDRVVRREICRIITKGTQYTYS  
VLEGDPSENYSKYLLSLKEKEEDSSGHTRAYGVCVFDTSLGKFFIGQFSDDRHCSTRFTLVAHYPPVQVLFKGN  
LSKETKTIKSSLSLQEGSLIPGSQFWDASKTLRTLLEEEYFREKLSDGIGVMLPQVLKGMTSESDSIGLTPGE  
KSELALSALGGCVFYLLKCLIDQELLSMANFEEYIPLSDSTVSTTRSGAIFTKAYQRMVLDVTLNNLEIFLNGT  
NGSTEGTLLEVRDTCHTPFGKRLKQWLCAPLCNHYAINDRLDAIEDLMVVPDKISEVVELLKKLPDLERLLSKI  
HNVGSPKLSQNHDPDSRAIMYEETYSKKKIIDFLSALEGFKVMCKIIGIMEEVADGFKSKILKQVISLQTKNPEG  
RFPDLTVELNRWDTAFDHEKARKTGLITPKAGFDSYDQALADIRENEQSLLEYLEKQNRNIGCRTIIVYWGIGRN  
RYQLEIPENFTTRNLPEEYELKSTKKGCKRYWTKTIEKKLANLINAERRDVSLKDCMRRLFYNFDKNYKDWQSA  
VECIAVLVDVLLCLANYSRGGDGPMCRPVILLPEDTPPFLELKGSRHPCITKTFFGDDFIPNDILIGCEEEEQENG  
KAYCVLVTGPNMGGKSTLMRQAGLLAVMAQMGCVPAEVCRLTPIDRVFTRLGASDRIMSGESTFFVELSETASI  
LMHATAHSLVLVDELGRGTATFDGTAIANAVVKELAETIKCRTLSTHYHSLVEDYSQNVAVRLGHMACMVENEC  
EDPSQETITFLYKFIKGACPKSYGFNAARLANLPEEVIQKGRKAREFEKMNQSLRLFREVCCLASERSTVDAAEAV  
HKLLTLIKEL

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**FIGURE 746A**

GTGAGCTGAAGCAGGGCAGGGCATCAACTACCCAGGAAGTGCAAGGGGTTTGGGGATTTTCCTTTCCTAGCCAA  
GGGAAGGCATGACAGACTGTACCTGGAAAAACAGGACACTCTTGCCCAAATACTGCACCTTTTGCACAGTCTTAG  
CAACTGGCAGACCAGGAGATTCTCTCTGTGCCTGATTCAATTGGGTCCCACACCCATAGGGCCTTGCTTACTGCC  
AGTGCAGCAGTCTGAGATTAACACCCCATCCCCGGGAGAACTCTAAGAAGGAGCTGATGTGGAGGAGCAGCTGAG  
ACAGTTCAAGATGACGACCACAGTAGCCACAGACTATGACAACATTGAGATCCAGCAGCAGTACAGTGATGTCAA  
CAACCGCTGGGATGTGACGACTGGGACAATGAGAACAGCTCTGCGCGGCTTTTGGAGCGGTCCCGCATCAAGGC  
TCTGGCAGATGAGCGTGAAGCCGTGCAGAAGAAGACCTTCACCAAGTGGGTCAATTCCCACCTTGCCCGTGTGTC  
CTGCCGGATCACAGACCTGTACACTGACCTTCGAGATGGACGGATGCTCATCAAGCTGCTGGAGGTCTCTCTGG  
AGAGAGGCTGCCATAACCCACCAAGGGACGAATGCGCATCCACTGCTTAGAGAATGTGGACAAGGCCCTTCAGTT  
CCTGAAGGAGCAGAGAGTCCATCTTGAGAACATGGGGTCCCATGACATCGTGGATGGAAACCACCGGCTGACCCCT  
TGGCCTCATCTGGACCATCATCTGCGCTTCCAGATCCAGGATATCAGTGTGGAAACTGAAGACAACAAAGAGAA  
GAAATCTGCCAAGGATGCATTGCTGTTGTGGTGCCAGATGAAGACAGCTGGGTACCCCAATGTCAACATTACAA  
TTTACCACCTAGCTGGAGGGACGGCATGGCCTTCAATGCACTGATACACAACACCGGCCTGACCTGATAGATT  
TGACAAACTAAAGAAATCTAACGCACACTACAACCTGCAGAATGCATTTAATCTGGCAGAACAGCACCTCGGCCT  
CACTAAACTGTTGGACCCCGAAGACATCAGCGTGGACCATCCTGATGAGAAGTCCATAATCACTTATGTGGTGAC  
TTATTACCACTACTTCTCTAAGATGAAGCCCTTAGCTGTTGAAGGAAAACGAATTGGAAAGGTGCTTGACAATGC  
TATTGAAACAGAAAAATGATTGAAAAGTATGAATCACTTGCCCTTGACCTTCTGGAATGGATTGAACAAACCAT  
CATCATTCTGAACAATCGCAAATTTGCCAATTCAGTGGTGGGGTTCAACAGCAGCTTCAGGCATTCAACACTTA  
CCGCACTGTGGAGAAACCACCCAAATTTACTGAGAAGGGGAACTTGGAAGTGTGCTCTTCACCATTCAGAGCAA  
GATGAGGGCCAAACAACCAAGGTCTACATGCCCCGGGAGGGGAAGCTCATCTCTGACATCAACAAGGCCTGGGA  
AAGACTGGAAAAAGCGGAACACGAAAGAGAAGTGGCTTTGCGGAATGAGCTCATAAGACAGGAGAACTGGAACA  
GCTCGCCCGCAGATTGATCGCAAGGCAGCTATGAGGGAGACTTGGCTGAGCGAAAACAGCGTCTGGTGTCTCA  
GGACAACTTTGGGTTTGACCTTCTGCAAGTTGAGGCGGCCACAAAAAGCACGAGGCCATTGAGACAGACATTGC  
CGCATACGAGGAGCGTGTGCAAGCTGTGGTAGCCGTGGCCAGGGAGCTCGAGGCCGAGAATTACCACGACATCAA  
GCGCATCACAGCGAGGAAGGACAATGTCTATCCGGCTCTGGGAATACCTACTGGAAGTGTCTAGGGCCCGGAGACA  
GCGGCTCGAGATGAACCTGGGGCTGCAGAAGATATCCAGGAAATGCTCTACATTATGGACTGGATGATGAAAT  
GAAGGTGCTAGTATTGTCTCAAGACTATGGCAACACTTACTTGGTGTGGAAGACCTGTTACAGAAGCACACCCT  
GGTTGAAGCAGACATTGGCATCCAGGCAGAGCGGGTGAAGGTGTCAATGCCTCCGCCCAGAAGTTGCGAACAGA  
CGGGGAAGGTTACAAGCCCTGTGACCCCAAGTGATCCGAGACCGGTGGCCACATGGAGTTCTGTTATCAAGA  
GCTTTGCCAGCTGGCGGCTGAGCGCAGGGCCCGTCTGGAAGAGTCCCGCCGCTCTGGAAGTTCTTCTGGGAGAT  
GGCAGAAGAGGAAGGCTGGATACGGGAGAAGGAGAAGATCCTGTCTCGGACGATTACGGGAAAGACCTGACCAG  
CGTCATGCGCCTGCTCAGCAAGCACCGGGCGTTCGAGGACGAGATGAGCGGCCGAGTGGCCACTTTGAGCAGGC  
CATCAAGGAAGGCGAAGACATGATCGCGGAGGAGCACTTCGGGTGCGAGAAGATCCGTGAGAGGATCAATTACAT  
CCGGGAGCAGTGGGCCAACCTAGAGCAGCTCTCGGCCATTGGAAGAAGCGCCTGGAGGAGGCCCTCCCTGCTGCA  
CCAGTTCCAGGCAGATGCTGATGACATTGATGCCTGGATGCTGGACATCCTCAAGATTGTCTCCAGCAGCGACGT  
GGGCCACGATGAGTATTCCACACAGTCTCTGGTCAAGAAACACAAGGACGTGGCGGAAGAGATCGCCAATTACAG  
GCCCACCTTGACACGCTGCACGAACAAGCCAGCGCCCTCCCCAGGAGCATGCCGAGTCTCCAGACGTGAGGGG  
CAGGCTGTGCGGCATCGAGGAGCGGTATAAGGAGGTGGCAGAGCTGACGCGGCTGCGGAAGCAGGCACTCCAGGA  
CACTCTGGCCCTGTACAAGATGTTACGCGAGGCTGATGCCCTGTGAGCTCTGGATCGACGAGAAGGAGCAGTGGCT  
CAACAACATGCAGATCCCAGAGAAGCTGGAGGATCTGGAGGTCAATCCAGCACAGATTGAGAGCCTAGAACCAGA  
AATGAACAACAGGCTTCCCGGGTTCAGTGGTGAACCAGATTGCACGCCAGCTGATGCACAGCGGCCACCCAAG  
TGAGAAGGAAATCAAAGCCAGCAGGACAACTCAACACAAGGTGGAGCCAGTTTCAAGAACTGGTTGACAGGAA  
GAAGGATGCCCTCTGTCTGCCCTGAGCATCCAGAACTACCCTCGAGTGCAATGAAACCAATCTGGATTGCG  
GGAAAAGACCAAGGTCATCGAGTCCACCCAGGACCTGGGCAATGACCTGGCTGGCGTCATGGCCCTGCAGCGCAA  
GCTGACCGGCATGGAGCGGGACTTGGTGGCCATTGAGGCAAGCTGAGTGACCTGCAGAAGGAGGCGGAGAAGCT  
GGAGTCCGAGCACCCCGACAGGCCAGGCCATCCTGTCTCGGCTGGCCGAGATCAGCGACGTGTGGGAGGAGAT  
GAAGACCACCTTGAAAAACCGAGAGGCCCTCCCTGGGAGAGGCCAGCAAGCTGCAGCAGTTCCTACGGGACTTGA  
CGACTTCCAGTCTTGGCTCTTAGGACCCAGACAGCGATCGCCTCGGAGGACATGCCAAACACCTGACCGAGGC



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**FIGURE 746B**

TGAGAAGCTGCTCACGCAGCACGAGAACATCAAGAATGAGATCGACAACCTACGAGGAGGACTACCAGAAGATGAG  
GGACATGGGCGAGATGGTCACCCAGGGGCGAGACCGATGCCAGTACATGTTTCTGCGGCAGCGGCTGCAGGCCCT  
GGACACTGGATGGAACGAGCTCCACAAGATGTGGGAGAACAGACAAAATCTCCTATCCCAGTCACATGCCATACCA  
GCAGTTCCTCAGAGACACGAAGCAAGCCGAAGCCTTTCTTAACAACCAGGAGTATGTTCTGGCTCACACTGAAAT  
GCCTACCACCTTGAAGGAGCTGAAGCAGCAATTAAAAAGCAAGAGGACTTCATGACCACCATGGACGCCAATGA  
GGAGAAGATCAATGCTGTGGTGGAGACTGGCCGGAGGCTGGTGAGCGATGGGAACATCAACTCAGATCGCATCCA  
GGAGAAGGTGGACTCTATTGATGACAGACATAGGAAGAATCGTGAGACAGCCAGTGAACTTTGATGAGGTTGAA  
GGACAACAGGGATCTACAGAAATTCCTGCAAGATTGTCAAGAGCTGTCTCTCTGGATCAATGAGAAGATGCTCAC  
AGCCCAGGACATGTCTTACGATGAAGCCAGAAATCTGCACAGTAAATGGTTGAAGCATCAAGCATTATGTCGAGA  
ACTTGCATCCAACAAAGAATGGCTTGACAAAATCGAGAAGGAAGGAATGCAGCTCATTTCAGAAAAGCCTGAGAC  
GGAAGCTGTGGTGAAGGAGAACTCACTGGTTTACATAAAATGTGGGAAGTCCTTGAATCCACTACCCAGACAAA  
GGCCCAGCGGCTCTTTGATGCAAAACAGGCCGAACTTTTCACCCAGAGCTGTGCAGATCTAGACAAATGGCTGCA  
CGGCCTGGAGAGTCAGATTGATCTGATGACTATGGCAAACACCTGACCAGTGTCAATATCCTGCTGAAAAAGCA  
ACAGATGCTGGAGAATCAGATGGAAGTGCGGAAGAAGGAGATCGAAGAGCTCCAAAGCCAGGCCAGGCCCTGAG  
TCAGGAAGGGAAGAGCACCGACGAGGTAGACAGCAAGCGCTCACCCTGCAGACCAAGTTCATGGAGTTGCTGGA  
GCCCTTGAACGAGAGGAAGCATAACCTGCTGGCCTCCAAAGAGATCCATCAGTTCAACAGGGATGTGGAGGACGA  
GATC1TGTGGGTTGGAGAGAGGATGCCTTTGGCAACTTCCACGGATCATGGCCACAACCTCCAGACTGTGCAGCT  
GTTAATAAAGAAAAATCAGACCCTCCAGAAAGAAATCCAGGGGCACAGCCTCGCATTGACGACATCTTTGAGAG  
GAGCCAAAACATCGTCACTGACAGCAGCAGCCTCAGCGCTGAGGCCATCAGACAGAGGCTTGCCGACCTGAAGCA  
GCTGTGGGGTCTCCTCATTGAGGAGACAGAGAAACGCCACAGGCGGCTGGAGGAGGCGCACAGGGCCCAGCAGTA  
CTACTTTGACGCTGCTGAGGCCGAAGCCTGGATGAGCGAGCAGGAGCTGTACATGATGTGAGAGGAGAAGGCCAA  
GGATGAGCAGAGTGCTGTCTCCATGTTGAAGAAGCACCAGATCTTAGAACAAGCTGTGGAGGACTATGCAGAGAC  
CGTGATCAGCTCTCCAAGACCAGCCGGGCCCTGGTGGCCGACAGCCATCCTGAAAGTGAGCGCATTAGCAIGCG  
GCAGTCCAAAGTGGATAAACTGTACGCTGGTCTGAAAGACCTTGCTGAAGAGAGAAGAGGCAAGCTGGATGAGAG  
ACACAGGTTATTCCAGCTCAACCGGGAGGTGGACGACCTGGAGCAGTGGATCGCTGAGAGGGAGGTGGTTCGAGG  
GTCCCATGAACTGGGACAGGACTATGAGCATGTCACGATGTTACAAGAACGATTCCGGGAGTTTGCCCGAGACAC  
CGGGAACATTGGGACAGGAGCGCGTGGACACGGTCAATCACCTGGCAGATGAGCTCATCAACTCTGGACATTGAGA  
TGCCGCCACCATCGCTGAATGGAAGGATGGCCTCAATGAAGCCTGGGCCGACCTCCTGGAGCTCATTGACACAAG  
AACACAGATTCTTGCCGCTTCCTATGAACTGCACAAGTTTTACCACGATGCCAAGGAGATCTTTGGCGGTATACA  
GGACAAACACAAGAAATCCCTGAGGAGCTTGGGAGAGATCAGAACACAGTGGAGACCTTACAGAGAATGCACAC  
TACATTGAGCATGACATCCAGGCTCTGGGCACACAGGTGAGGAGCTGCAGGAGGATGCAGCCCCCTCCAGGC  
GGCCTATGCGGGTGACAAGGCCGACGATATCCAGAAGCGCGAGAACGAGGTCCCTGGAAGCCTGGAAGTCCCTCCT  
GGACGCTGTGAGAGCCGACGGGTGCGGCTGGTGGACACAGGGGACAAGTTCCGCTTCTTCAGCATGGTGCGCGA  
CCTCATGCTCTGGATGGAGGATGTCTCCGGCAGATCGAGGCCAGGAGAAGCCAAGGGATGTATCATCTGTTGA  
ACTCTTAATGAATAATCATCAAGGCATCAAAGCTGAAATTGATGCACGTAATGACAGTTTACAACCTGCATTGA  
ACTTGGGAAATCCCTGTTGGCGAGAAAACACTATGCATCTGAGGAGATCAAGGAAAAATTACTGCAGTTGACGGA  
AAAGAGGAAAGAAATGATCGACAAGTGGGAAGACCGATGGGAATGGTTAAGACTGATTCTGGAGGTCCATCAGTT  
CTCAAGAGACGCCAGTGTGGCCGAGGCCTGGCTGCTTGGACAGGAGCCGTACCTATCCAGCCGAGAGATAGGCCA  
GAGCGTGGACGAGGTGGAGAAGCTCATCAAGCGCCACGAGGCATTGAAAAGTCTGCAGCAACCTGGGATGAGAG  
GTTCTCTGCCCTGGAAAGGCTGACTACATTGGAGTTACTGGAAGTGGCGAGACAGCAAGAGGAAGAGGAGAGGAA  
GAGGCGGCCGCTTCTCCGAGCCGAGCAGCAAGGTTTTAGAGGAAGCCGAGTCCAGCAGCAGTGGGATACTTC  
AAAAGGAGAACAAGATTTCCAAAACGGTTTGCCAGCTGAACAGGGATCTCCACGGATGGCAGAAACGGTGGACAC  
AAGCGAAATGGTCAAGCGCGCTACAGAACAAAGGACGAGCTCTAAAGAGTCCAGCCCCATCCCTCCCCGACCTC  
TGATCGTAAAGCCAAGACTGCCCTCCAGCCAGAGTGCCGCCACCTTACCAGCCAGAACCAGGAGACACCTTC  
GGCCAGATGGAAGGCTTCTCAATCGGAAACACGAGTGGGAGGCCCAATAAGAAAGCCTCAAGCAGGTCTTG  
GCACAATGTTTATTGTGTCTATAAATAACCAAGAAATGGGTTTTCTACAAAGATGCAAGACTGCTGCTTCTGGAAT  
TCCCTACCACAGCGAGGTCCCTGTGAGTTTGAAGAAGCTGTCTGCGAAGTGGCCCTTGATTACAAAAGAGAA  
ACACGTATTCAAGCTAAGACTAAATGATGGCAATGAGTACCTCTTCCAAGCCAAAGACGATGAGGAAATGAACAC

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**FIGURE 746C**

ATGGATCCAGGCTATCTCTTCGCCCATCTCCTCTGATAAACACGAGGTGTCTGCCAGCACCCAGAGCACGCCAGC  
ATCCAGCCGCGCGCAGACCCCTCCCCACCAGCGTCGTCACCATCACCAGCGAGTCCAGTCCCGGCAAGCGGGAAAA  
GGACAAAGAGAAAGACAAAGAGAAGCGGTTTCAGCCTTTTTGGCAAAAAGAAATGA~~ACT~~CTCTTCCTTCACCTCCT  
GCCCTTCTCTTACCTTTTCAGTGAAATTCAGCATGCAAGCTCAGAACCAACACATTACTCTCTGTGCCTAATGT  
TCCTCAATGTGGTTGATTATTTTTTTTTTTAATTTATAGAGCATTTCTGGGGGGGGTGGGG

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**FIGURE 747**

MTTIVATDYDNIEIQQQYSDVNNRWDVDDWDNENSSARLFERSRIKALADEREAVQKKTFTKWVNSHLARVSCRI  
TDLYTDLRDGRMLIKLLEVLSEGERLPKPTKGRMRIHCLENVDKALQFLKEQRVHLENMGSHDIVDGNHRLTLGLI  
WTIILRFQIQDISVETEDNKEKKSADALLLWCQMKTAGYPNVNIHNFTTSWRDGMFALNIHKHRPDLIDFDKL  
KKSNAHYNLQNAFNLAEQHLGLTKLLDPEDISVDHPDEKSIITYVVYYHYFSKMALAVEGKRIGKVLDNAIET  
EKMIEKYESLASDLELWIEQTIIILNNRKFANSLVGVQQQLQAFNTYRTVEKPPKFTTEKGNLEVLLFTTIQSKMRA  
NNQKVYMPREGKLISDINKAWERLEKAEHERELALRNELIRQEKLEQLARRFDRKAAMRETWLSNQRLVSQDNF  
GFDLPAVEAATKKHEAIEDIAAYEERVQAVVAVARELEAENYHDIKRITARKDNVIRLWEYLLELLRARRQRLE  
MNLGLQKIFQEMLYIMDWMDEMKVVLVSQDYGKHLGVEDLLQKHTLVEADIGIQAERVGVNASAQKFATDGE  
YKPCDPQVIRDRVAHMEFCYQELCQLAAERRARLEESRRLWKFFWEMAEWIREKEKILSSDDYGKDLTSVMR  
LLSKHRAFEDEMSEGRSGHFEQAIKEGEDMIAEEHFGESEKIRERIYYIREQWANLEQLSAIRKKRLEEASLLHQFQ  
ADADDIDAWMLDILKIVSSSDVGHDEYSTQSLVKKKHDVAEEIANYRPTLDTLHEQASALPQEHAESEPDVRGRLS  
GIEERYKEVAELTRLRKQALQDTLALYKMFSEADACELWIDEKEQWLNNMQIPEKLEDLEVIQHRFESLEPEMNN  
QASRVAVVNIQARQLMHSGHPSEKEIKAQQDKLNTRWSQFRELVDKRDALLSALSQNYHLECNETKSWIREKT  
KVIESTQDLGNDLAGVMALQRLTGEMERDLVAIEAKLSDLQKEAEKLESEHPDQAQAILSRALIESDVWEEMKTT  
LKNREASLGEASKLQQFLRDLDDFQSWLSRTQTATASEDMPNTLTAEKLLTQHENIKNEIDNYEEDYQKMRDMG  
EMVTQGGTDAQYMFRLRQLALDGTGWNELHKMWENRQNLSSQSHAYQQFLRDTKQAEAFNNQYVLAHTEMTT  
LEGAEAAIKKQEDFMTTMDANEKINAVVETGRRLVSDGNINSRRIQEKVDSIDDRHRKNRETASELLMRLKDNR  
DLQKFLQDCQELSLWINEKMLTAQDMSYDEARNLHSHKWLKHQAFMAELASNKEWLDKIEKEGMQLISEKPETEAV  
VKEKLTGLHKMWVLESTTQTKAQLRFDANKAELFTQSCADLDKWLHGLESQIQSDDYGKHLTSVNILLKKQQML  
ENQMEVRKKEIEELQSQAQALSQEGKSTDEVDKRLTVQTKFMELLEPLNERKHNLLASKEIHQFNRDVEDEILW  
VGERMPLATSTDHGHNLQTVQLLIKKNQTLQKEIQGHQPRIDDIFERSQNIIVTDSSSLSAEAIQRLADLQQLWG  
LLIEETEKRRHRLLEEAAHQYYFDAAEAEAWMSEQELYMMSEEKAKDEQSAVSMKKHQILEQAVEDYAEVHQ  
LSKTSRALVADSHPESESRISMRQSKVDKLYAGLDLAEERRGKLDERHRLFQLNREVDDLEQWIAEREVVGASHE  
LGQDYEHVTMLQERFREFARDTGNIGQERVDVTNHLADELINSGHSDAATIAEWKDGLNEAWADLLELIDTRTQI  
LAASYELHKFYHDAKEIFGRIQDKHKKLPEELGRDQNTVETLQRMHTTFEHDIQALGTQVRQLQEDARLQAAYA  
GDKADDIQKRENEVLEAWKSLLDACESRRVRLVDTGDKFRFFSMVRDLMLWMDVIRQIEAQEKPRDVSSVELLM  
NNHQGIKAEIDARNDSTTCIELGKSLARKHYASEEIKEKLLQLTEKRKEMIDKWEDRWELRLILEVHQFSRD  
ASVAEAWLLGQEPYLSREIGQSVDEVEKLIKREAFKSAATWDERFSALERLTLELLEVRROQEEEEERKRRP  
PSPEPSTKVSEEAESQQQWDTSKGEQVSQNGLPAEQGSPRMAETVDTSEMVNGATEQRTSSKESPISPSTDRK  
AKTALPAQSAATLPARTQETPSAQMEGFLNRKHEWEAHNKKASSRSWHNVYCVINNQEMGFYKDAKTAASGIPYH  
SEVPVSLKEAVCEVALDYKKKKHVFKLRLNDGNEYLFQAKDDEEMNTWIAISSAISSDKHEVSASTQSTPASSR  
AQTLPSTSVVTITSESSPGKREKDKKDKKRFSLFGKKK

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**FIGURE 748**

CACAACCGCCCGCGGCTCTGAGACGCGGCCCCGGCGGCGGCGGCAGCAGCTGCAGCATCATCTCCACCCTCCAGC  
CATGGAAGACGAGGAGGAAGAAGAGGAGGAGGAAGAGGAGGACGAGGACGAAGACCTGGAGGAGCTGGAGGTGCT  
GGAGAGGAAGCCCGCCCGGGCTGTCCGCGGCCCCAGTGCCCAACCGCCCTGCCGCCGGCGCGCCCTGATGGA  
CTTCGGAAATGACTTCGTGCCCGCGCGCCCCGGGGACCCCTGCCGGCCGCTCCCCCGTCGCCCCGGAGCGGCA  
GCCGTCTTGGGACCCGAGCCCGGTGTCGTGACCGTGCCCGCGCCATCCCCGCTGTCTGCTGCCGCAGTCTCGCC  
CTCCAAGCTCCCTGAGGACGACGAGCCTCCGGCCCCG

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**FIGURE 749**

TTCTTCCTTTTCGATCCGCCATCTGCGGTGGAGCCGCCACCAAAATGCAGATTTTCGTGAAAACCCCTTACGGGGA  
AGACCATCACCCCTCGAGGTTGAACCCTCGGATACGATAGAAAATGTAAAGGCCAAGATCCAGGATAAGGAAGGAA  
TTCTTCCTGATCAGCAGAGACTGATCTTTGCTGGCAAGCAGCTGGAAGATGGACGTACTTTGTCTGACTACAATA  
TTCAAAAGGAGTCTACTCTTCACTTTGTGTTGAGACTTCGTGGTGGTGCTAAGAAAAGGAAGAAGAAGTCTTACA  
CCACTCCCAAGAAGAATAAGCACAAGAGAAAGAAGGTTAAGCTGGCTGTCCTGAAATATTATAAGGTGGATGAGA  
ATGGCAAAATTAGTCGCCTTCGTGAGAGTGCCCTTCTGATGAATGTGGTGCTGGGGTGTATGGCAAGTCACT  
TTGACAGACATTATTGTGGCAAATGTTGTCTGACTTACTGTTCAACAAACCAGAAGACAAGTAACTGTATGAGT  
TAATAAAAGACATGAACTAACAAAAA

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**FIGURE 750**

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQORLIFAGKQLEDGRTLSDYNIQKESTLHLVLRRLRG  
GAKRKKKSYTTPKKNKHKKVKLAVLKYYKVDENGKISRLRRECPSECGAGVFMASHFDRHYCGKCCLTYCF  
NKPEDK

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**FIGURE 751**

GGCACGAGCAGAATCCAGGGGCCCGGGGCTGTAGATTCCTTGACAAGGATATCCTAGCGGCGAAACAACACCGTA  
CTGGGAGTCAGAACGCTCTGGGTCTTAGTCTTGACTGCCATTAAGTAGCGGTATGACATTGGAGAAGCTTTTTTGA  
CCCTTCTGGATTTCCGTTTCTTTCTGTAAATGAGGAGCTTGGAAGATCCGGAAATGAGGCCATAGGAAAC  
AAGTGACTTGCTGAGTCCAGATAAAGTACTGCTGACAGAGAGAAACATGAACCAGAAGCTACTGAAGTTGGAGAAC  
TTGCTACGATTTACACTATTTATAGGCAACTGCACAGTCTGTGTCAAAGAAGAGCATTAAGACAGTGGAGGCAT  
GGGTTTTTCATCTGCTTACCCTGTGTGGACAGCTCAACTGTGTGCTGGCCCTGGCCAAACAGATGTGCTCAATGGG  
GCTGCTTTATCTCAGTATAGGCTTCTAGTAACAAAAAGGAAGAAGGACCATGGAATCTCAGTTATCTTCAACA  
AAATCTAAAAAGGTGGTAGAAGTATGGATTGGAATGACTATTGAGGAAGTGGCCAGGGCAATGGAAAAAACACA  
GATTATGTATATGAAGCTTTATTGAACACTGATATTGACATAGATTCACTGGAAGCAGACTCACATTTAGATGAA  
GTCTGGATCAAAGAAGTGATAACGAAGGCAGGGATGAAGTTAAAGTGGAGTAAATTAACAGGACAAAGTCAGA  
AAAAATAAAGATGCTGTAAGAAGGCCCCAGGCAGATCCAGCTTTATTAACCCCAAGGTCCCCAGTTGTTACTATA  
ATGGGCCATGTTGATCACGGGAAACGACATTACTTGACAAATTCGAAAACTCAAGTGGCAGCAGTGGAACT  
GGAGGCATCACTCAGCACATTGGTGCCTTTCTTGCTCTCTGCCTTCTGGGGAAAAGATAACTTTTCTTGATACT  
CCAGGACATGCTGCTTTCTCAGCAATGAGAGCCAGAGGTGCTCAGGTCACTGACATTGTCGTATTGGTTGTAGCT  
GCAGATGATGGAGTGATGAAACAACTGTAGAATCTATTGAGCATGCCAAAGATGCACAGGTTCTTATTATCCTT  
GCCGTAATAAATGTGACAAAGCTGAGGCTGATCCTGAGAAAGTGAAAAAGAGCTGCTGGCTTACGATGTGGTA  
TGTGAAGATTATGGAGGTGATGTTCAAGCAGTGCCCTGTCTCCGCACTTACGGGCGATAATCTGATGGCTTTGGCA  
GAAGCAACAGTTGCTCTTGCAAGAAATGTTAGAATTGAAAGCAGATCCCAATGGTCCAGTGGAAAGGAACAGTAATA  
GAGTCTTTCACAGACAAAGGAAGAGGTCTTGTTACTACAGCTATAATTCAAAGAGGAACTTAAGAAAAGGCTCT  
GTTCTGGTTGCTGGAAATGTTGGGCAAAAGTACGCTTAATGTTTGATGAAATGGAAAAACAATTGATGAGGCC  
TATCCCAGCATGCCAGTGGGAATTACAGGCTGGAGAGACCTTCTTCTGCAGGAGAAGAAATCTTGAAGTAGAA  
TCTGAGCCAAGGGCACGTGAAGTTGTTGACTGGAGGAAATATGAACAAGAACAGGAGAAAGGTGAGGAGGATCTG  
AAAATAATAGAAGAAAAGCGAAAGGAACACAAAGAAGCACATCAGAAAGCCCGTGAGAAGTATGGCCATCTACTG  
TGGAAGAAGAGATCAATTCTACGGTTTTTAGAAAAGAAAAGAACAAATACCTTAAAGCCAAAAGAGAAAAGGGAA  
AGAGATTCAAATGTACTTTCTGTGATTATTAAGGTGATGTTGATGGTTCTGTTGAGGCCATTTTGAACATTATA  
GATACCTATGATGCTTCACACGAGTGTGAAGTGAATAGTACATTTTGGAGTGGGTGATATAAGTGCAATGAT  
GTTAACCTTGCTGAAACATTTGATGGTGTATATATGGCTTTAATGTGAATGCAGGCAATGTTATCCAACAGTCA  
GCTGCAAAAAAAGGAGTAAAAATTAACTTCACAAAATAATTTACCGTCTGTTGAAGATTGCAAGAGGAACTG  
AGCAGCAGATTACCCTGTGCTGTGGAAGAGCACCCAGTAGGTGAGGCATCTATACTAGCTACCTTCTCTGTAACA  
GAAGGGAAGAAAAAGTTCTGTGGCTGGCTGCAGAGTCCAAAAGGGACAGTTAGAAAAACAAAAAAATTTAAA  
CTAACCGTAATGGACATGTAATTTGGAAGGGCTCATTACCTCATTGAAACACCATAAAGATGACATTTCAATT  
GTCAAAACGGGAATGGATTGTGGTCTCAGTTTAGATGAAGACAATATGGAATTTCAAGTGGGAGACAGAATTGTT  
TGTTATGAAGAAAAGCAAATTCAAGCCAAGACTTCTTGGGATCCAGGATTTAAATATTACATTAAAAATGTAAAT  
AACTCA

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**FIGURE 752**

MNQKLLKLENLLRFHTIYRQLHSLCQRRALRQWRHGFSSAYPVWTAQLCAWPWPTDVLNGAALSQYRLLVTKKEE  
GPWKSQLSSTKSKKVVEVWIGMTIEELARAMEKNTDYVYEALLNTDIDIDSLEADSHLDEVWIKVITKAGMKLK  
WSKLGQDKVRKNKDAVRRPQADPALLTPRSPVVTIMGHVDHGKTTLLDKFRKTQVAAVETGGITQHIGAFVLSLP  
SGEKITFLDTPGHAAFSAMRARGAQVTDIVVLVVAADDGVMKQTVESIQHAKDAQVFIILAVNKCDKAEADPEKV  
KKELLAYDVVCEDYGGDVQAVPVVSALTGDNLMALAEATVALAEMLELKADPNPVEGTVIESFTDKGRGLVTTAI  
IQRGTLRKGSVLVAGKCWAKVRLMFDENGKTIDEAYPSMPVGITGWRDLPSAGEEILEVESEPRAREVVDWRKYE  
QEQEKQEDLKIIEEKREHKEAHQKAREKYGHLLWKKRSILRFLERKEQIPLKPKEKRERDSNVLSVVIKGDVD  
GSVEAILNIIDTYDASHECELELVHFGVDISANDVNLAETFDGVIYGFNVNAGNVIQQSAAKKGVKIKLHKIY  
RLVEDLQEELSSRLPCAVEEHPVGEASILATFSVTEGKKKVPVAGCRVQKGQLEKQKKFKLTRNGHVIWKGSITS  
LKHHKDDISIVKTGMDCGLSLDEDNMEFQVGDRIVCYEEKQIQAKTSWDPGF



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**FIGURE 753**

CGGIGCCGGGTGTTCATGGCGGCCCTGCAGGTACTGCTGCTCGTGCCTCCGGCTCCGGCCCCCTGAGCGATGGTCCCTT  
TCCCTTCTGCCACGCGGGGATCGGGCACTCACCCAGTTGCAAGTGCAGCACTATGGAGTAGCGCAGGGTCTCGAG  
CTGTGGCCGTGGACTTAGGCAACAGGAAATTAGAAATATCTTCTGGAAAGCTGGCCAGATTTGCAGATGGCTCTG  
CTGTAGTACAGTCAGGTGACACTGCAGTAATGGTCACAGCGGTGAGTAAACAAACCTTCCCCTTCCCAGTTTA  
TGCCTTTGGTGGTTGACTACAGACAAAAAGCTGCTGCAGCAGGTAGAAATTTCCACAAACTATCTGAGAAGAGAGA  
TTGGTACTTCTGATAAAGAAATTCTAACAAGTCGAATAATAGATCGTTCAATTAGACCGCTCTTTCCAGCTGGCT  
ACTTCTATGATACACAGGTCTGTGTAATCTGTTAGCAGTAGATGGTGTAAATGAGCCTGATGTCCTAGCAATTA  
ATGGCGCTTCCGTAGCCCTCTCATTATCAGATATTCCTTGGAAATGGACCTGTTGGGGCAGTACGAATAGGAATAA  
TTGATGGAGAATATGTTGTTAACCACAAGAAAAGAAATGTTCTTAGTACTTTAAATTTAGTGGTTGCTGGAG  
CACCTAAAAGTCAGATTGTTCATGTTGGAAGCCTCTGCAGAGAACATTTTACAGCAGGACTTTTGCCATGCTATCA  
AAGTGGGAGTGAAATATACCCAACAAATAATTCAGGGCATTTCAGCAGTTGGTAAAAGAACTGGTGTACCAAGA  
GGACACCTCAGAAGTATTTACCCCTTCGCCAGAGATTGTGAAATATACTCATAAACTTGCTATGGAGAGACTCT  
ATGCAGTTTTTACAGATTACGAGCATGACAAAGTTTTCCAGAGATGAAGCTGTTAACAAAATAAGATTAGATACGG  
AGGAACAATAAAAAGAAAAATTTCCAGAAGCCGATCCATATGAAATAATAGAATCCTTCAATGTTGTTGCAAAGG  
AAGTTTTTAGAAGTATTGTTTTGAATGAATACAAAAGGTGCGATGGTCGGGATTTGACTTCACCTAGGAATGTAA  
GTTGTGAGGTAGATATGTTTAAACCCTTCATGGATCAGCATTATTTCAAAGAGGACAAACACAGGTGCTTTGTAA  
CCGTTACATTTGATTTCATTAGAATCTGGTATTAAGTCAGATCAAGTTATAACAGCTATAAATGGGATAAAAGATA  
AAAAATTCATGCTGCACTACGAGTTTCTCCTTATGCAACTAATGAAATTTGGCAAAGTCACTGGTTTAAATAGAA  
GAGAACTTGGGCATGGTGCTCTTGCTGAGAAAGCTTTGTATCCTGTTATTTCCCCGAGATTTTCCCTTTCACCATAA  
GAGTTACATCTGAAGTCCTAGAGTCAAAATGGGTATCTTCTATGGCATCTGCATGTGGCGGAAGTTTAGCATTAA  
TGGATTCAAGGGTTCCAATTTCACTGCTGTTGTCAGGCGTAGCAATAGGATTGGTCACCAAAACCGATCCTGAGA  
AGGGTGAAATAGAAGATTATCGTTTGCTGACAGATATTTTGGGAATTGAAGATTACAATGGTGACATGGACTTCA  
AAATAGCTGGCACTAATAAAGGAATAACTGCATTACAGGCTGATATTAATTAACCTGGAATACCAATAAAAATTG  
TGATGGAGGCTATTCAACAAGCTTCAGTGGCAAAAAGGAGATATTACAGATCATGAACAAAACCTATTTCAAAAC  
CTCGAGCATCTAGAAAAGAAAATGGACCTGTTGTAGAACTGTTTCAGGTTCCATTATCAAAACGAGCAAAATTTG  
TTGGACCTGGTGGCTATAACTTAAAAAACTTCAGGCTGAAACAGGTGTAACCTATTAGTCAGGTGGATGAAGAAA  
CGTTTTCTGTATTGTCACCAACACCCAGTGCTATGCATGAGGCAAGAGACTTCATTACTGAAATCTGCAAGGATG  
ATCAGGAGCAGCAATTAGAATTTGGAGCAGTATATACCGCCACAATAACTGAAATCAGAGATACTGGTGTAAATGG  
TAAAATTATATCCAAATATGACTGCGGTACTGCTTCATAACACACAACCTTGATCAACGAAAGATTAAACATCCTA  
CTGCCCTAGGATTAGAAGTTGGCCAAGAAATTCAGGTGAAATACTTTGGACGTGACCCAGCCGATGGAAGAATGA  
GGCTTCTCGAAAAGTGCTTCAGTCGCCAGCTACAACCGTGGTCAGAACTTTGAATGACAGAAGTAGTATTGTAA  
TGGGAGAACCTATTTACAGTCATCATCTAATTCAGTGATTTTTTTTTTAAAGAGAATTTAGAAATTTCTATT  
TTGTCTAGGGTGATGTGCTGTAGAGCAACATTTTAGTAGTATCTTCCATTGTGTAGATTTCTATATAATATAAAT  
ACATTTTAATTATTTGTACTAAAATGCTCATTACATGTGCCATTTTTTAATTCGAGTAACCCATATTTGTTTA  
ATTGTATTTACATTATAAATCAAGAAATATTTATTATTAAGTAAGTCATTATACATCTTAGAAAAAATTACA  
TAGTTTTGTTTTTACAATCTGAAATATATGAAAACTTAGATAGAATATGTCATATGTTATTATAACAGATCTC  
TTCTACATCTTATTTTCTTCTTTGTATACAGTAGTGACAGTTTACCTTCAGTCATCCTACAGGTCACCTCTGT  
GCCCAACAACCTTTACTTGCCCTACAACGGTTCACAACTGGAACAGGCCATATTCAAAGCCAGTGCCATTTCTTC  
AGAACTGTTAACAGATATAGTGAGTTGAGGGAGCTAATCTGATACACTTTTGATAATATAATGCCTTTCAAATTA  
GTTACCAAATCATAAACAGAGTGGAATAAATAAATGAGATTCTAACTAGGATGAATGTGGTAGTAATGATGTA  
TATTTTCAAATTTACCTAAACAGAAAGATTATTGGCTAAGGCAGGCGGATCATGAGATCAGGAGATCGAGACCA  
TCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAGTGCAAAAATTAGCCGGCGTGGTGGCGCATGCCTGTA  
ATCCTAGCTACTCAGGAGGCTGAGGCAGAAGAATCACTTCAACCCAGGAGGTGGAGGTTGTAGTGAGCCGAGATT  
CGCCATTGCACTCCAGCTCAGGCAACAAGAGCAAACTCCGTCTC

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**FIGURE 754**

MAACRYCCSCLRLRPLSDGPFLLPRRDRAITQLQVRALWSSAGSRAVAVDLGNRKLEISSGKLARFADGSAAVQS  
GDTAVMVTAVSKTKPSQFMPLVVDYRQKAAAAGRIPTNYLRREIGTSDKEILTSRIIDRSIRPLFPAGYFYDT  
QVLCNLLAVDGVNEPDVLAINGASVALSLSDIPWNGPVGAVRIGIIDGEYVNPTRKEMSSSTLNLVVAGAPKSQ  
IVMLEASAENILQQDFCHAIKVGKVTQQIIQGIQQLVKEITGVTKRTPQKLFTPSPEIVKYTHKLAMERLYAVFT  
DYEHDKVSRAEAVNKIRLDTEEQLKEKFPEADPYEIIIESFNVAKEVFRSIVLNEYKRCRDLTSLRNVSCVD  
MFKTLHGSALFQRGQTQVLCTVTFTDSLESGIKSDQVITAINGIKDKNFMLHYEFPPYATNEIGKVTGLNRRELGH  
GALAEKALYPVIPRDFPFTIRVTSEVLESNGSSSMASACGGSLALMDSGVPISAVAGVAIGLVTKTDPEKGEIE  
DYRLTLDILGIEDYNGDMDFKIAGTNKGITLQADIKLPGIPKIVMEAIQQASVAKKEILQIMNKTISKPRASR  
KENGPPVETVQVPLSKRAKFGVGGYNLKKLQAETGVTISQVDEETFSVFAPTPSAMHEARDFITEICKDDQEQQ  
LEFGAVYTATITEIRDTGVMVKLYPNMTAVLLHNTQLDQRIKHPTALGLEVGQEIQVKYFGRDPADGRMRLSRK  
VLQSPATTVVRTLNDRSSIVMGEPISSSSNSQ

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**FIGURE 755**

GACAAGATGGCCACACCGGCGGTACCAGCAAGTGCTCCTCCGGCCACGCCAGCCCCAGTCCCGGCGGCGGTCCCA  
GCCTCTGCCCCAGCCTCAGTTCCAGCGCCAACGCCAGCACCGGCTGCGGCTCCGGTTCCCGCTGCGGCTCCAGCC  
TCATCCTCAGACCCTGCGGCAGCATCGGCTACAACCTGCGGCTCCTGGCCAGACCCCGGCCTCAGCGCAAGCTCCA  
GCGCAGACCCACAGCGCCCGCTCTGCCTGGTCCTGCTCTTCCAGGGCCCTTCCCCGGCGGCGCGTGGTCAGGCTG  
CACCCAGTCATTTTGGCCTCCATTGTGGACAGCTACGAGAGACGCAACGAGGGTGCTGCCCCGAGTTATCGGGACC  
CTGTTGGGAAGTGTGACAAACACTCAGTGGAGGTCACCAATTGCTTTTCAGTGCCGCACAATGAGTCAGAAGAT  
GAAGTGGCTGTTGACATGGAATTTGCTAAGAATATGTATGAAGTGCATAAAAAAGTTTCTCCAAATGAGCTCATC  
CTGGGCTGGTACGCTACAGGCCATGACATCACAGAGCACTCTGTGCTGATCCATGAGTACTACAGCCGAGAGGCC  
CCCAACCCCATCCACCTCACTGTGGACACAAGTCTCCAGAACGGCCGCATGAGCATCAAAGCCTATGTCAGCACT  
TTAATGGGTGTCCCTGGGAGGACCATGGGAGTGATGTTTACACCTCTGACAGTGAAATACGCATACATGACACT  
GAACGCATCGGAGTTGAGCTGATCATGAAGACCTGCTTTAGCCCCAACAGAGTGATTGGACTCTTAAGTGACTTG  
CAGCAAGTAGGAGGGGCATCAGCTCGCATCCAGGATGCCCTGAGTACAGTGTTGCAATATGCAGAGGATGTACTG  
TCTGGAAAGGTGTCAGCTGACAATACTGTGGGCCGCTTCTGATGAGCCTGGTTAACCGAGTACCGAAAAATAGTT  
CCCGATGACTTTGAGACCATGCTCAACAGCAACATCAATGACCTTTTGATGGTGACCTACCTGGCCAACCTCACA  
CAGTCACAGATTGCCCTCAATGAAAACTTGTAAACCTGTGAATGACCCCAAGCAGTACACTTGCTGGTCTAGG  
TATTAACCCAGGACTCAGAAGTGAAGGAGAAATGGGTTTTTTGTGGTCTTGAGTCACACTGAGATAGTCAGTTG  
TGTTGACTCTAATAAACGGAGCCTACCTTTTGT

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**FIGURE 756**

MATPAVPASAPPATPAPVPAAVPASAPASVPAPTPAPAAAPVPAAPASSSDPAAASATTAAPGQTPASQAQAPAQ  
TPAPALPGPALPGPFPGGRVVRLHPVILASIVDSYERRNEGAARVIGTLLGTVDKHSVEVTNCFVPHNESEDEV  
AVDMEFAKNMYELHKKVSPNELILGWYATGHDITEHSVLIHEYYSREAPNPIHLTVDTSLQNGRMSIKAYVSTLM  
GVPGRIMGVMFTPLTVKYÄYYDTERIGVELIMKTCFSPNRVIGLLSDLQQVGGASARIQDALSTVLQYAEDVLSG  
KVSADNTVGRFLMSLVNRVPKIVPDDFETMLNSNINDLLMVTYLANLTQSQIALNEKLVNL

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**FIGURE 757**

GTTGGAGACTCGATTGTTGATGACAGCGGAAGAATGATAACAAAATGCGCGAGCGAGATAGTGAGCCGTTCTCCA  
ACCCTTTGGCCCCCTGATGGCCACGATGTGGATGATCCTCACTCCTTCCACCAATCAAACTCACCAATGAAGACT  
TCAGGAACTTCTCATGACCCCCAGGGCTGCACCTACCTCTGCACCACCTTCTAAGTCACGTCACCATGAGATGC  
CAAGGGAGTACAATGAGGATGAAGACCCAGCTGCACGAAGGAGGAAAAAGAAAAGTTATTATGCTAAGCTACGCC  
AACAAGAAATTGAGAGAGAGAGAGAGCTAGCAGAGAAGTACCGGGGTCGTGCCAAGGAACGGAGAGATGGAGTGA  
ACAAAGATTATGAAGAAACCGAGCTTATCAACACCACAGCTAACTACAGGGCTGTTGGCCCCACTACTAAGGCGG  
ACAAATCAGCTGCAGAGAAGAGAAGACAGTTGATCCAGGAGTCCAAATTCCTTGGGTGGTGACATGGAACACACCC  
ATTTGGTGAAAGGCTTGGATTTTGTCTGTCTTCAAAAGGTACGAGCTGAGATTGCCAGCAAAGAGAAAGAGGAAG  
AGGAACTGATGGAAGGCCCGAGAAAGAAACCAAGAAAGATGAGGATCCTGAAAATAAAATTGAATTTAAACAC  
GTCTGGGCCGCAATGTTTACCGAGTGCTTTTAAGAACAAGCATATAAGCGGAATGAGTTGTTCTCGCCGGGCCG  
CATGGCCTATGTGGTAGGCCTGGATGATGAGTAAGCTGACACAGATATCCCCACCCTCTTATCCGCAGCAAGGT  
TGACTGCCCCACCATGGAGGCCCGAGACCATACTGACCACAAATGATATTGTCATTAGCAAGCTTACCCAGTTGCT  
TTCATACCTGAGGCAGGGAACCCGTAACAAGAAGCTTAAGAAGAAGGATAAAGGGAAGCTGGAAGAGAAGAAACC  
TGCTGAGGCTGACAGGAGTATTTTCGAAGACATTGGGGATTATACACCCTCCACAATCAAGACACCTTGGGACAA  
GGAGCGGGAGAGATATCGGGAACGGGAGCGTGATCAGGAGACAGAGACCGTGACCGAGAGCGAGAGCGAGAACGA  
GATCAGGAGCGAGAACGAGATCGGGAACGAGAGAGAGAAGAGGAAAAGAAGAGACACAGCTACTTTGAGAAGCCA  
AAAGTACATGATGAGTCCGTGGACGTTGACAAAGGACCTGGGTCCGGCCAAGGAGTTGATCAAGTCCATCAATGAA  
AAGTTTGTGGGTCTGCTGGCTGGGAAGGCACAGAATCGCTGAAAATTGCAGAAGACAAAAGCAGCTGAGAGAT  
TTCTTTGGCATGTCCAACAGTTATGCAGAGTGCTATCCAGCCACGATGGATGACATGGCTGTGGATAGTGATGAG  
GAGGTGGATTATAGCAAAATGGACCAGGGTAACAAGAAGAGAACCTTAAGCCGTTGGGACTTTGATACCCAGGAA  
GACTACAGCGAGTATATGAACAACAAAGAGGCTTTGCCAAGGCTGCATTCCAGTATGGTATCAAAATGTCTGAA  
GGGCGGAAAACAGACGCTTCAAGGAAACCAATGACAAAGCAGCGCTCGATTGCCAGTGAAGATTAGTGCAATC  
ATTGAGAAGAGGAAGAAGATGGAAGCTGATGGGGTTGAAGTCAAAAGACCAAAATACTAA

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**FIGURE 758**

MPERDSEPF SNPLAPDGHVDVDPHSFHQSKLTNEDFRKLLMTPRAAPTSAPPSKSRHHEMPREYNEDEDPAARRR  
KKKSYYAKLRQQEIERERELAEKYRGRAKERRDGVNKDYEETELINTTANYRAVGPTTKADKSAAEKRRQLIQES  
KFLGGDMEHTHLVKGLDFALLQKVRAEIASKEKEEEEELMEKPQETKKDEDPENKIEFKTRLGRNVYRVLFKNKH  
ISGMS CSCRAAWPMW

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**FIGURE 759**

ATGCCCCGAGAATGTGGCACCCCGGAGCGGGGCGACTGCCGGGGCTGCCGGCGGCCGCGGGAAAGGCGCCTATCAG  
GACCGCGACAAGCCAGCCCAGATCCGCTTCAGCAACATTTCCGCCGCCAAAGCGGTTGCTGATGCTATTAGAACA  
AGCCTTGGACCAAAAGGAATGGATAAAATGATTCAAGATGGAAGGTGATGTAACCATTACAAATGATGGTGCT  
ACCATTCTGAAACAAATGCAAGTATTACATCCAGCAGCCAGAATGCTGGTGGAGCTGCTAAGGCTCAAGATATA  
GAAGCAGGAGATGGCACCACATCAGTAGTCATCATTGCTGGCTCCCTCTTAGATTCTTGTACCAAGCTTCTTCAG  
AAAGGGATTCAATCAACCATCATTCTGAGTCATTCCAGAAGGCCCTGGAAAAGGGCATTGAAATCTTGACTGAC  
ATGTCTCGACCTGTGGAAGTGAAGTACAGAGAACTTTGTTAAATAGTGCAACCACTTCACTGAACTCAAAGGTG  
GTTTCTCAGTATTCAAGTCTGCTTTCTCCAATGAGTGTAATGCAGTGATGAAAGTGATTGACCCAGCCACAGCC  
ACCAGTGTAGATCTTAGAGATATTAATAAGTGAAGCTTGGTGGGACAATTGATGACTGTGAGTTGGTGGAA  
GGGCTGGTTCTCACCCAAAAAGTGTCAAATCTGGCATAACCAGAGTTGAAAAGGCCAAGATTGGGCTTATTTCAG  
TTTTGCTTATCTGCTCCCAAAACAGACATGGATAATCAAATAGTGGTTCTGACTATGCCCAGATGGACCGAGTG  
CTGCGAGAAGAGAGAGCCTATATTTTAAATTTAGTGAAGCAAATTAACAAAAACAGGATGTAATGTCCTTCTCATA  
CAGAAATCTATTCTAAGAGATGCTCTTAGTGATCTTGCATTACACTTTCTGAATAAAATGAAGATCATGGTGATT  
AAGGATATTGAAAGAGAAGACATTGAATTCATTGTGAAGACAATTGGAACCAAGCCAGTTGCTCATATTGACCAA  
TTTACTGCTGACATGCTGGGTTCTGCTGAGTTAGCTGAGGAGGTCAATTTAAATGGTTCTGGCAAACCTGCTCAAG  
ATTACAGGCTGTGCCAGCCCTGGAAAAACAGTTACAATTGTTGTTTCGTGGTTCTAACAACCTGGTGATTGAAGAA  
GCTGAGCGCTCCATTTCATGATGCCCTATGTGTTATTCGTTGTTTAGTGAAGAAGAGGGCTCTTATTGCAGGAGGT  
GGTGCTCCAGAAATAGAGTTGGCCCTAGCATTAACTGAATATTACGAACACTGAGTGGTATGGAATCCTACTGC  
GTTTCGTGCTTTTGCAGATGCTATGGAGGTCAATTCATCTACACTAGCTGAAAATGCCGGCCTGAATCCCATTCT  
ACAGTAACAGAACTAAGAAACCGGCATGCCCAGGGAGAAAAAACTGCAGGCATTAAATGTCCGAAAGGGTGGTATT  
TCCAACATTTTGGAGGAAGTGGTTGTCCAGCCTCTGTTGGTATCAGTCAGTGCTCTGACTCTTGCAACTGAACT  
GTTTCGGAGCATTCTGAAAATAGATGATGTGGTAACACTCGATAATCTGGATAACTGACTAGCACCATTATGATC  
ACCAGTATTGTGGCTGGAATGGAAGAAGATCACCTGGTGTTCTTGGTTGGAAGATTATTCCTCTGAATTTCT  
GGGCTTGGTCTTCCAGTTGGCATTTCCTGAAGTTGATTGAAACAATTTAATGAAAATATTAAATATTTGGTTT  
CAAAAGGCAGATTATCTTCTCCCAACATTCTGTTATTCTGATACTTTTGAAAACTAATAAAAACTAATAAAA  
GAAGCGTA

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**FIGURE 760**

MPENVAPRSGATAGAAGGRGKGAYQDRDKPAQIRFSNISAAKAVADAIRTSLGPKGMDKMIQDGKGDVTITNDGA  
TILKMQVLHPAARMLVELSKAQDIEAGDGTTSVVIAGSLLDSCTKLLQKGIHPTIISSEFQKALEKGIEILTD  
MSRPVELSDRETLNLSATSLNSKVVSQYSSLLSPMSVNAV MKVIDPATATSVDLRDIKIVKKLGGTIDDCELVE  
GLVLTQKVSNSGITRVEKAKIGLIQFCLSAPKTDMDNQIVVSDYAQM DRVLREERAYILNLVKQIKKTGCNVLII  
QKSILRDALSDALHFLNKMIMVIKDIEREDIEFICKTIGTKPVAHIDQFTADMLGSAELAEVNLNGSGKLLK  
ITGCASPGKTVTIVVRGSNKLVIEEAERSIHDALCVIRCLVKKRALIAGGGAPEIELALALTEYSRTLSGMESYC  
VRAFADAMEVIPSTLAENAGLNP ISTVTIELRNRHAQGEKTAGINVRKGGISNILEELVVQPLLVSVSALT LATET  
VRSILKIDDVVNT



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**FIGURE 761A**

AGGAAGGAAGGAGCAGTTGGTTCAATCTCTGGTAATCTATGCCAGCAATTATGACAATGTTAGCAGACCATGCGAG  
CTCGTCAGCTGCTTGATTTTCAGCCAAAACTGGATATCAACTTATTAGATAATGTGGTGAATTGCTTATACCATG  
GAGAAGGAGCCCAGCAAAGAATGGCTCAAGAAGTACTGACACATTTAAAGGAGCATCCTGATGCTTGGACAAGAG  
TCGACACAATTTTGGAAATTTCTCAGAATATGAATACGAAATACATGGAATACAAATTTTGGAAAATGTGATAA  
AAACAAGGTGGAAGATTCTTCCAAGGAACCAAGTGCAGGAAGGAATAAAAAATACGTTGTTGGCCTCATTATCAAGA  
CGTCATCTGACCCAACTTGTGTAGAGAAAGAAAAGGTGTATATCGGAAAATTAATATGATCCTTGTTCAGATAC  
TGAAACAAGAATGGCCCAACATTGGCCAACTTTTATCAGTGATATTGTTGGAGCAAGTAGGACCAGCGAAAGTC  
TCTGTCAAAATAATATGGTGATTCTTAAACTCTTGAGTGAAGAAGTATTGATTTCTCTAGTGGACAGATAACCC  
AAGTCAAACTAAGCATTATAAAGACAGCATGTGCAATGAATTCTCACAGATATTTCACTGTGTGAGTTTGTAA  
TGGAAAATTTCTCAAAATGCTCCACTTGTACATGCAACCTTGGAAACATTGCTCAGATTTCTGAAGTGGATCCCC  
TGGGATATATTTTGGAGACCAATTAATCAGCACATTGATTTATAAGTTCCTGAATGTTCCAATGTTTCGAAATG  
TCTCTCTGAAGTGCCCTCACTGAGATTGCTGGTGTGAGTGAAGCCAATATGAAGAACAATTTGTAACACTATTTA  
CTCTGACAATGATGCAACTAAAGCAGATGCTTCCTTTAAATACCAATATTCGACTTGCGTACTCAAATGGAAAAG  
ATGATGAACAGAAGTTCAATTCAAATCTCAGTTTGTCTCTGACCTTTCTTAAGGAACATGATCAACTTATAG  
AAAAAGATTAAATCTCAGGGAAGCTCTTATGGAGGCCCTTCATTATATGTTGTTGGTATCTGAAGTAGAAGAAA  
CTGAAATCTTTAAATTTGTCTTGAATACTGGAATCATTGGCTGCTGAAGTCTATAGAGAGAGTCCATTCTCTA  
CATCTGCCTCTCCGTTGCTTTCTGGAAGTCAACATTTTGATGTTCTCCAGGAGACAGCTATATTTGCCCATGT  
TATTCAAGGTCCGTTTATTAATGGTTAGTGAATGGCTAAACCAGAGGAAGTATTGGTTGTAGAGAATGATCAAG  
GAGAAGTTGTGAGAGAATTCATGAAGGATACAGATTCCATAAATTTGTATAAGAATATGAGGGAACATTTGTTT  
ATCTTACTCATCTGGATTATGTAGATACAGAAAGAATAATGACAGAGAAGCTTCACAATCAAGTGAATGGTACAG  
AGTGGTCATGGAAAAATTTGAATACATTGTGTTGGGCAATAGGCTCCATTAGTGGAGCAATGCATGAAGAGGACG  
AAAAACGATTTCTTGTACTGTTATAAAGGATCTATTAGGATTATGTGAACAGAAAAAGAGGCAAGATAATAAAG  
CTATTATTGCATCAAATATCATGTACATAGTAGGTCAATACCCACGTTTTTTGAGAGCTCACTGGAAATTTCTGA  
AGACTGTAGTTAACAAGCTGTTTCAATTCATGCATGAGACCCATGATGGAGTCCAGGATATGGCTTGTGATACTT  
TCATTAAATAGCCCAAAAATGCCGAGGCATTTCTGTTGAGTTTCAAGTTGAGAGTATGCCATTTATTGATG  
AAATTTGAACAACATTAACTATTATTGTGATCTTCAGCCTCAACAGGTTTCATACGTTTTATGAAGCTGTGG  
GGTACATGATTGGTGCACAAACAGATCAAACAGTACAAGAGCACTTGATAGAAAAGTACATGTTACTCCCTAATC  
AAGTGTGGGATAGTATAATCCAGCAGGCAACCAAAAATGTGGATATACTGAAAGATCCTGAAACAGTCAAGCAGC  
TTGGTAGCATTTTGAACAAATGTGAGAGCCTGCAAAAGCTGTTGGACACCCCTTTGTAATTCAGCTTGGAAAGAA  
TTTATTAGATATGCTTAATGTATACAAGTGCCTCAGTGAAATATTTCTGCAGCTATCCAAGCTAATGGTGAAA  
TGGTTACAAAGCAACCATGATTAGAAAGTATGCCAAGCTGTAAGGGAAGCTTTAAAGTTAATATCTGGTTGGG  
TGAGCCGATCCAATGATCCACAGATGGTCGCTGAAAATTTTGTTCCTCTGTTGGATGCAGTTCTCATTGATT  
ATCAGAGAAATGTCCAGCTGTAGAGAACCAAGTGCTTAGTACTATGGCCATAATTGTCAACAGTTAGGGG  
GACATATAACAGCTGAAATACCTCAAATATTTGATGCTGTTTTTGAATGCACATTGAATATGATAAATAAGGACT  
TTGAAGAATATCCTGAACATAGAACGAACCTTTTCTTACTACTTCAGGCTGTCAATTCTCATTGTTTCCAGCAT  
TCCTTGCTATTCCACCTACACAGTTTTAACTTGTTTTGGATTCCATCATTTGGGCTTTCAAACATACTATGAGGA  
ATGTCGCAGATACGGGCTTACAGATACTTTTACACTCTTACAAAATGTTGCACAAGAAGAAGCTGCAGCTCAGA  
GTTTTTATCAAACCTTATTTTGTGATATTCTCCAGCATATCTTTCTGTTGTGACAGACACTTCACATACTGCTG  
GTTTAAACAATGCATGCATCAATTCTTGATATATGTTTAAATTTGGTTGAAGAAGGAAAAATAAGTACATCATTA  
ATCCTGGAAATCCAGTTAACAACCAATCTTTCTTCAGGAATATGTGGCTAATCTCCTTAAGTCGGCCTTCCCTC  
ACCTACAAGATGCTCAAGTAAAGCTCTTTGTGACAGGGCTTTTCAGCTTAAATCAAGATATTCCTGCTTTCAAGG  
AACATTTAAGAGATTTCTAGTTCAAATAAAGGAATTTGCAGGTGAAGACACTTCTGATTTGTTTTTGAAGAGA  
GAGAAATAGCCCTACGGCAGGCTGATGAAGAGAAACATAAACGTCAAATGTCTGTCCTGGCATCTTTAATCCAC  
ATGAGATTCCAGAAGAAATGTGTGATTAAATCCAAATTCATGCTGTTTTTTTTCTCTGCAACTCCGTTAGCAGA  
GGAAAACAGCATGTGGGTATTGTGCGACCAATGATGCCAATTTGTAAATTAATGTACCTAGTGGCCCTTT  
TTCTTATGTGTTTTTTTGTATAAGAAATTTCTGTGAAATATCCTTCCATTGTTTAAAGCTTTTGTGTTTGGTCATC  
TTTATTTAGTTTGCATGAAGTTGAAATTAAGGCATTTTAAAAATTTTACTTCATGCCCATTTTGTGGCTGGG  
CTGGGGGAGGAGGCAAATTCATTTGAACATATACTTGTAAATCTAATGCAAAATTATACAATTTTCTCTGTAA

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**FIGURE 761B**

ACAATACCAATTTTAAATTAGGGAGCATTTTCCTTCTAGTCTATTTTCAGCCTAGAAGAAAAGATAATGAGTAAAA  
CAAATTGCGTTGTTTAAAGGATTATAGTGTGCTGCATTGTCTGAAGTTAGCACCTCTTGGACTGAATCGTTTGTCTA  
GACTACATGTATTACAAAGTCTCTTTGGCAAGATTGCAGCAAGATCATGTGCATATCATCCCATTGTAAAGCGAC  
TTCAAAAATATGGGAACACAGTTAGTTATTTTACACAGTTCCTTTTGTGTTTGTGTGTGTGTGCTGTCGCTTGT  
CGACAACAGCTTTTGTGTTTCCTCAATGAGGAGTGTGTGCTCATTGTGAGCCTTCATTAAGTGAAGTGAATGG  
TTAAAAATATTTATCCTGTTAGAAATAGGCTGCATCTTTTAACTCACTTAAAAAACAACAACTCTGGCTTT  
TGAGATGACTTATACTAATTACATTGTTTACCAAGCTGTAGTGCTTTAAGAACAACACTTAAAAAGCAAAATAA  
ACTTGCTTACATTTAAAAAAA

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**FIGURE 762**

MPAINTMLADHAARQLLDIFSQKLDINLLDNVNVNCLYHGEGAQORMAQEVLTILKEHPDAWTRVDITILEFSQNMNT  
KYYGLQILENVIKTRWKILPRNQCEGIKKYVVGLIIKTSSDPTCVEKEKVYIGKLNMLVQILKQEWPKHWPTFI  
SDIVGASRTSESLCQNNMVLKLLSEEVDFSSGQITQVSKHLKDSMCNEFSQIFQLCQFVMENSQNAPLVHAT  
LETLLRFLNWIPLYIFETKLITLIYKFLNVPFRNVSLKCLTEIAGVSVSQYEEQFVTLFTLTMMQLKQMLPL  
NTNIRLAYSNGKDDEQNFIQNLSLFLCTFLKEHDQLIEKRLNLRETLMELHYMLLVSEVEETEIFKICLEYWNH  
LAAELYRESPFSTSASPLLSGSQHFDVPPRRQLYLPMLFKVRLLMVSRMAKPEEVLVVENDQGEVVREFMKDTS  
INLYKNMRETLVYLTHLDYVDTERIMTEKLNQVNGTEWSWKNLNTLCWAIGSISGAMHEEDEKRFVTVIKDLL  
GLCEQKRGKDNKAI IASNIMYIVGQYPRFLRAHWKFLKTVVNKLFEFMHETHDGVQDMACDTFIKIAQKCRHFV  
QVQVGEVMPFIDEILNNINTIICDLQPQQVHTFYEAAGYMIGAQTDTQTVQEHLEKYMLLPNQVWDSIIQQATKN  
VDILKDPETVKQLGSILKTNVRACKAVGHFVIQLGRIYLDMLNVYKCLSENISAAIQANGEMVTKQPLIRSMRT  
VKRETLKLISGWVSRNDPQMVAENFVPPLLDAVLIDYQRNVAAREPEVLSTMAIIVNKLGGHITAEIPQIFDA  
VFECTLNMINKDFEYPEHRTNFFLLQAVNSHCFFAFLAIPPTQFKLVLDSEI I WAFKHTMRNVADTGLQILFTL  
LQNVAQEEAAAQSFYQTYFCDILQHIFSVVTDTSHTAGLTMHASILAYMFNLVEEGKISTSLNPGNPVNNQIFLQ  
EYVANLLKSAFPHLQDAQVKLFVTGLFSLNQDIPAFKEHLRDFLVQIKEFAGEDTSDLFLEEREIALRQADEEKH  
KRQMSVPGIFNPHEIPEEMCD

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**FIGURE 763**

GGCGGCGGCAGCAGCTGCTTGGGCGCCGTGCGGTGGTGA CTGAGCTACGAGCCTGGCAGCAGGTGTGCGCCGAGC  
CCCGGCCTGGCCCGCCCCGCGTGCTCCAGGCTCCGCACCCCTGATGCTGCGCGGGTGCTGAGCCCACTTCG  
GCCAGGACGATGGTTAAGTATTTCTGGGCCAGAGCGTGCTCCGGAGTTCTGGGACCAAGTGTTGCGCCGCCTTC  
TGGCAGCGGTACCCGAATCCCTATAGCAAACATGTCTTGACGGAAGACATAGTACACCGGGAGGTGACCCCTGAC  
CAGAACTGCTGTCCCGGCGACTCCTGACCAAGACCAACAGAATGCCACGCTGGGCCAAGCAACTATTTCTGCC  
AATGTTGCTCACTCGGTGTACATCCTGGAGGACTCTATTGTGGACCCACAGAATCAGACCATGACTACCTTCACC  
TGGAACATCAACCACGCCCCGGCTGATGGTGGTGGAGGAACGATGTGTTTACTGTGTGA ACTCTGACAACAGCGGC  
TGGACTGAAATCCGCCGGGAAGCCTGGGTCTCCTCTAGCTTATTTGGTGTCTCCAGAGCTGTCCAGGAATTTGGT  
CTTGCCCAAGTTCAAAGCAACGTGACCAAGACTATGAAGGGTTTTGAATATATCTTGACTAAGCTGCAAGGCGAG  
GCCCCTTCCAAAACACTTGAGACAGCCAAGGAAGCCAAGGAGAAGGCAGAGGAGACGGCACTGGCAGCTACAGAG  
AAGGCCAAGGACCTCGCCAGCAAGGCGGCCACCAAGAAGCAGCAGCAGCAACAGTTTGTGTAGCCAGCCCAC  
CACCACCACAGCAACCCAGACAGCTAGGCTTAGCCCTCTGCCCTCCCTCCATTGTACTTTATCATTAAAAATCA  
ACTTCCA

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**FIGURE 764**

CTGACTCTCTGAGGCTCATTTTGCAGTTGTTGAAATTGTCCCGCAGTTTTCAATCATGTCTGAACCAATCAGAG  
TCCTTGTGACTGGAGCAGCTGGTCAAATTGCATATTTACTGCTGTACAGTATTGGAAATGGATCTGTCTTTGGTA  
AAGATCAGCCTATAATTCTTGTGCTGTTGGATATCACCCCATGATGGGTGTCCTGGACGGTGTCTAATGGAAC  
TGCAAGACTGTGCCCTTCCCCTCCTGAAAGATGTCATCGCAACAGATAAAGAAGACGTTGCCTTCAAAGACCTGG  
ATGTGGCCATTCTTGTGGGCTCCATGCCAAGAAGGGAAGGCATGGAGAGAAAAGATTTACTGAAAGCAAATGTGA  
AAATCTTCAAATCCCAGGGTGCAGCCTTAGATAAAATACGCCAAGAAGTCAGTTAAGGTTATTGTTGTGGGTAATC  
CAGCCAATACCAACTGCCTGACTGCTTCCAAGTCAGCTCCATCCATCCCCAAGGAGAACTTCAGTTGCTTGACTC  
GTTTGGATCACAACCGAGCTAAAGCTCAAATTGCTCTTAAACTTGGTGTGACTGCTAATGATGTAAAGAATGTCA  
TTATCTGGGGAAACCATTCTCGACTCAGTATCCAGATGTCAACCATGCCAAGGTGAAATTGCAAGGAAAGGAAG  
TTGGTGTATGAAGCTCTGAAAGATGACAGCTGGCTCAAGGGAGAATTTGTCACGACTGTGCAGCAGCGTGGCG  
CTGCTGTCATCAAGGCTCGAAAACATCCAGTGCCATGTCTGCTGCAAAAGCCATCTGTGACCACGTCAGGGACA  
TCTGTTTGGAAACCCAGAGGGAGAGTTTGTGTCCATGGGTGTTATCTCTGATGGCAACTCCTATGGTGTTCTTG  
ATGATCTGCTCTACTCATTCCCTGTTGTAATCAAGAATAAGACCTGGAAGTTTGTGGAAGGTCTCCCTATTAATG  
ATTTCTACGTGAGAAGATGGATCTTACTGCAAAGGAACTGACAGAAGAAAAAGAAAGTGCTTTTGAATTTCTTT  
CCTCTGCCTGACTAGACAATGATGTTACTAAATGCTTCAAAGCTGAAGAATCTAAATGTCGTCTTTGACTCAAGT  
ACCAATAATAATAATGCTATACTTAAATTACTTGTGAAAAACAACACATTTTAAAGATTACGTGCTTCTTGGTA  
CAGGTTTGTGAATGACAGTTTATCGTCATGCTGTTAGTGTGCATTCTAAATAAATATATATTCAAATG

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**FIGURE 765**

MSEPIRVLTGAAGQIAYSLLYSIGNGSVFGKDQPIILVLLDITPMMGVLDGVLMELODCALPLLKDVIATDKED  
VAFKDLDVAILVGSMPPREGMERKDLLKANVKIFKSQGAALDKYAKKSVKVIVVGNPANTNCLTASKSAPSIPKE  
NFSCLTRLDHNRKAQIALKLGVNTANDVKNVIIWGNHSSQYPDVNHAKVKLQKKEVGVEALKDDSWLKGEFVT  
TVQORGA AVIKARKLSSAMSAKAICDHVRDIWFGTPEGEFVSMGVISDGNSYGVPPDLLYSFPVVIKNKTWKFV  
EGLPINDFSREKMDLTAKELTEEKESAFEFLSSA

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**FIGURE 766**

TCTTTTAAGTATACTCTCTACTTATTAAAAAAGTCCTTTCCACGCTACCTGCAGAGGGGTCCATACG  
GCGTTGTTCTGGATTCCCATCGTAACTTAAAGGGAACTTTCACAATGTCCGGAGCCCTTGATGTCCTGCAAATG  
AAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCTCACTTAGGTGGCACC AATCTTGACTTCCAGATGGAA  
CAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAATCTGAAGAGGACCTGGGAGAAGCTTCTGCTG  
GCAGCTCGTGCTATTGTTGCCATTGAAAACCTGCTGATGTCAGTGTTATATCCTCCAGGAATACTGGCCAGAGG  
GCCGTGCTAAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGCTGGCCGCTTCACTCCTGGAACCTTCGCTAAC  
CAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCTTGTTGTTACTGACCCAGGGCTGACCACCAGCCTCTCATG  
GAGGCATCTTATGTTAACCTACCTACCATTGCGCTGTGTAACACAGATTCTCCTCTGCACTATGTGGACATTGCC  
ATCCCATGCAACAACAAGGGAGCTCACTCAGTGGGTTTGATGTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATG  
CGTGGCACCATTTCCTGTGAACACCCATGGGAGGTCATGCCTGATCTGTACTTCTACAGAGATCCTGAAGAGATT  
GAAAGAGAAGACAGGCTGCTGCTGAAAAGGCAGTGACCAAGGAGGAATTCAGGGTGAATGGACTGCTCCAGCT  
CCTGAGTTCACTGTTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGTGTACAGGTGCCCTCTGTGCCATTCCC  
TACTGAAGACGGGAGCGCTCAGCCTGCCACGGAAGACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGT  
AGGAGCAACCACTGACTGGTCTTAAGCTGTTCTTGCATAGGCTCTTAAGCAACATGGAAAAATGGTTGATGGAAA  
ATAAACATCAGTTTCT

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**FIGURE 767**

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIENPADVS  
VISSRNTGQRAVLKFAAATGATPIAGRFTPGTFANQIQAAFREPRLLVVTDPRAHQPLMEASYVNLPTIALCNT  
DSPLHYVDIAIPCNNKAHSVGLMWWMLAREVLRMRGTISCEHPWEVMPDLYFYRDP EEIEREEQAAAEKAVTKE  
EFQGEWTAPAPEFTVTQPEVADWSEGVQVPSVPIPY



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**FIGURE 768**

GCAGAGGGGTCCATACGGCGTTGTTCTGGATTCCCATCGTAACTTAAAGGGAACTTTCACAATGTCGGGAGCCC  
TTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGACAGCAGGAACCTCACTTAGGTGGCACCAATC  
TTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAAATCTGAAGAGGACCT  
GGGAGAAGCTTCTGGCCGCTTCACTCCTGGAACCTTCGCTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCT  
TCTTGTGGTTACTGACCCCAGGGCTGACCACCAGCCTCTCATGGAGGCATCTTATGTTAACCTACCTACCATTGC  
GCTGTGTAACACAGATTCTCCTCTGCACTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGT  
GGGTTTGATGTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCTGTGAACACCCATGGGA  
GGTCATGCCTGATCTGTACTTCTACAGAGATCCTGAAGAGATTGAAAGAGAAGAGCAGGCTGCTGCTGAAAAGGC  
AGTGACCAAGGAGGAATTTTCAGGGTGAATGGACTGCTCCAGCTCCTGAGTTCAGTGTACTCAGCCTGAGGTTGC  
AGACTGGTCTGAAGGTGTACAGGTGCCCTCTGTGC

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**FIGURE 769**

MSGALDVLQMKEEDVLKFLAAGTHLGSTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLASLLEPSLTRSRQPSG  
SHGFLWLLIPGLTTSLSQRHLKLTYP LLCVTQILLCAMWTLPSHATARELTQWV

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**FIGURE 770**

GGCCCAGCTGCTGAGAGGAGTTGCCTGAGAGTGACCTTTGCATCTGCCTGTCCAGCCAGCATGGAACCAAAGCGG  
ATCAGAGAGGGCTACCTTGTGAAGAAGGGGAGCGTGTTCAATACGTGGAAACCCATGTGGGTTGTATTGTTAGAA  
GATGGAATTGAATTTCTATAAGAAGAAAAGTGACAACAGCCCCAAAGGAATGATCCCCTGAAAGGGGAGCACTCTG  
ACTAGCCCTTGTCAAGACTTTGGCAAAAGGATGTTTGTGTTTAAGATCACTACGACCAAACAGCAGGACCCTTC  
TTCCAGGCAGCCTTCTTGGAGGAGAGAGATGCCTGGGTTTCGGGATATCAAGAAGGCCATTAAATGCATTGAAGGA  
GGCCAGAAATTTGCCAGGAAATCTACCAGAGGTTCCATTGACTGCCAGAAACCATTGACTTAGGTGCCTTATAT  
TTGTCCATGAAAGACACTGAAAAAGGAATAAAGAAGTGAATCTAGAGAAGGACAAGAAGATTTTAAATCACTGC  
TTCACAGGTAAGTGCCTCATTGATTGGCTGGTATCCAACAGTCTGTTAGGAATCGCCAGGAAGGCCCTCATGATT  
GCTTCATCGCTGCTCAATGAGGGGTATCTGCAGCCTGCTGGAGACATGTCCAAGAGTGCAGTGGATGGAAGTGCCT  
GAAAACCCCTTTCCTGGACAACCTGATGCCCTTCTACTACTTTCCAGACAGTGGGTTCTTCTGTGAAGAGAATTCC  
AGTGATGATGATGTGATTCTGAAAGAAGAAATTCAGAGGGGTTCATTATCAAGCAGGGATGTTTACTGAAGCAGGGG  
CATAGAAAGGAAAACTGAAAGTGAGGAAGTTTCATCTTGAGAGAAGACCTGCCTACCTGCACTACTATGACCCT  
GCTGGGGCAGAAGATCCCCCTGGGAGCAATTCACTTGAGAGGCTGTGTGGTGACTTCAGTGGAGAGCAACTCAAT  
GGCAGGAAGAGTGAGGAAGAGAACCTTTTTGAGATCATCACAGCAGATGAAGTGCATATTCTTGAAGCAGCC  
ACCCCCAAGGAGCGCACAGAGTGGATCAGAGCCATCCAGATGGCCTCCCGAACTGGGAAGTAAAGAGACTCCTGC  
ATTCTCTCTCCCTCTCTGAGGGAAGCCCATGGACAAGCTCAGTCCAGGACCTGTCCACTTCTGTGACAAATCAAC  
GGGAAACAGCCCCAGGGGTGGGAAGTTTTCAATTGCAGGGGGTCTGAATGTAAGTCAACCATGTGGTGTGCAAGGT  
TCCCTTGCACTTGATTGCTCACTGCAGCCCTCTGCCCTATCCATGACCCCCAAGCAGATATAACAAGCTGTGC  
AGCCTCAGTAGGCTGCTTGCCCTCTCCAGGCCCTCAGGGCCTCTTCTGAAAAATGAAGAAATTAAGTAGTAGATT  
CCTGAGGTCCCCCTAGCTTAAAAAATCTGCCCATGATTCTAACACTCGCAGTAGTGATAGTGATC  
TAGTTGTTCTGCTGGTGTCTTCTTGGCTAAGTCTTGGCCTTCAGTTATCTTCAAATGTACCAGAACCTGAGCC  
AACGCCCTCCCTGTGAACTGTGTGCTGATCTGTAGTACAGTACCAGGAAGAAACCTCTTTTGTCTCTTTAGACAT  
CTTCTACTTGCTCTTGGCCTTGAGATCGTGTAAACAAATGAAGGAGGGCTCTCTCTTTCTCTCTCATCCTACTC  
AAAACTTCCCGAGAGCAGTGGTGGTTTTGAGGGTTTTGACTTCTATTACTTTTGGCAGCCTGGAAAGTGTGTGTC  
TTCTGGGAAAGAGACCTGGGGAGGCCAGGAGTAGCTGAGGGTCTTTCTGTGCCCTTAAACCGCCAGAGGAGCC  
CTATTCCACTCTGGTTTTAGGCTGATCTGAGAGGGTCTCCCTTTGTTCTTTCTGGAGCATTTCTTAACGTTTA  
TTACAATTAGGAGGGGGACCCACATCTGTGAGATTCTGTTTCATTTGAGGTTTACAGAAAAAAGTGGCCA  
GATGTGTTCCCCCATGGGTGAGAGGCCTGGGCAACTGCCTGGTGAATGTGTCTTGGGCAGCTGCAGCAAGTGG  
AGGGGCTGAAGTACTGGCCAGCTCACTGGATGATGGGTTAATACAACAAGTGCAGTGAAGGACTCAGAGCCACA  
CAGAACTTCTGAGAGGGGCTGTAGCATTGCGCAGCATCTTCAGTCTCCAGTAAATGATATTGCGTTCTGTGCT  
CAGCTTTAAGCACAAGTAGCAGCAGCTCCTGCTTGAGTTCTGAGGGCATCATGGCCCTATGATTAACCAGAGTGA  
TCTAACCTAGACTAAAATTGGGAAGTATTGCAATTTTGACCCTGACCACTAAGTAGTGATTCTTCTCAAAA  
TTGAGAAAGACAGCAGCCATTGAAGCAGATATGTGTGTGAAGTATATTTTCAATCCAGATTTTAAATTTAA  
GGCTCCAGGAAAGAAAGGAGAGTAGAACATTTTCTCATTTTATCAAATCCTCTCTTGCCCTCCCTCAATTCCC  
CTGTAACATTCTGAAGCTGTCCCCTCCAGATGGTTTTATCAATAGCCTAGAGGTAAAGAAGTGTCTTTTCT  
TCTGATTCTTTAATAAATTATCTTTATAGAATATGCACAAGTTTTTCTACACTCAGTGTTAAAGTATTTATTAAT  
GGGAAGTCAACTTAATGTTTTGAAATAAATATATGACTCTGTTTAAAT

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**FIGURE 771**

CTTTCGGGAGACTGGAGTCGAAGGCCGTGAGGTATTTTCTAAGXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
XXXXXXXXXAACCCCGGAGGAGGGTGAGGAGCAGAGCTGGCCATAATGGCAGGTGAAGAAATTAATGAAGACTAT  
CCAGTAGAAATTCACGAGTATTTGTCAGCGTTTGAGAATTCATTGGTGCTGTGGATGAGATGCTGAAGACCATG  
ATGTCTGTTTCTAGAAATGAGTTGTTGCAGAAGTTGGATCCACTTGAACAAGCAAAAGTGGATTTGGTTTCTGCA  
TACACATTAAATTCAATGTTTTGGGTTTATTTGGCAACCCCAAGGAGTTAATCCTAAGGAACATCCAGTAAACAG  
GAATTGGAAAGAATCAGAGTATATATGAACAGAGTCAAGGAAATAACAGACAAGAAAAAGGCTGGCAAGCTGGAC  
AGAGGTGCAGCTTCAAGATTTGTAAAAATGCCCTCTGGGAACCAAAATCGAAAAATGCATCAAAAGTTGCCAAT  
AAAGGAAAAAGTAAAAGTTAACTTTTTGGTTTTGATGTACACATATTCAAAAAGTACATTAATATGTAAATTCAC  
AGTAAATATGTAAAGCTAAATACTTTCTCTCCAAAGATCATTATCTTTATTGATTAGCACTGAGGATTTTAACA  
TTGTGATATATTATATATTATAATTTACCATCTCTTGATGAGACTCTTATTTCTTTATATAGGTCAGTCTTGCA  
AGTACCATTTTATAAGCAGCTGTGAAATTTAAGTGAAATGTTCTTTGTAAACATTTGTACTATTTTAAATGAATA  
ATGACCTTATGAAGTATGCTATCTGTAGGCTGAAATTATAGGTACATCTGTTTTCACTATATGATATTAAGAAAG  
CGTGAAATGACTTAAATGTTTCAATTTTTTCTGTATAGATACTTTATCATGTTTTCATGATTTTAGGAATTACTGC  
TTTGTGATATTCAAAGTGTGAACTAAACTTTATGGTTGTACTTTAATTCTTGGCATGTTGCCTCTATGTCCC  
ATTTAAATAAAATACATTCTCATTAACTTTAGATGGGAAATAAGGTTGTATGTTGATGGATGAATTTTGGCATG  
ATGACTGTACTCTCAATAAAGGCTGAAAATGTTGT

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**FIGURE 772**

CCITTCACCTTCGCCCTCCAGCTGCTGCAGCTGCAGCCCGACCGCGAGCGTGCCAAGCGGCTTCAGCAGCTAGCGGA  
GCGGTGGCGGGCGGCCCCGCTCAGGAGACCACCAGATTCCCCCTCTTCCCGCGGCCCTCGCCATGGCGACCCACGGAC  
AGACTTGCGCGCGTCCAATGTGTATTCTCCATCATATGCTGACCTTGGCAAAGCTGCCAGAGATATTTCAACA  
AAGGATTTGGTTTTGGGTGGTGAAACTGGATGTGAAAACAAAGTCTTGCAGTGGCGTGGAATTTCAACGTCCG  
GTTTCATCTAATACAGACACTGGTAAAGTTACTGGGACCCCTGGAGACCAAATACAAGTGGTGTGAGTATGGTCTGA  
CTTTCACAGAAAAGTGGAACTGATAACACTCTGGGAACAGAAATCGCAATTGAAGACCAGATTTGTCAAGGTT  
TGAAACTGACATTTGATACTACCTTCTCACCAAATCAAAGCTGACAAGGAATAACTTTGCAGTGGGCTACAGGAC  
TGGGGACTTCCAGCTACACACTAATGTCAATGATGGGACAGAATTTGGAGGATCAATTTATCAGAAAGTTGTGA  
AGATCTTGACACTTCAGTAAACCTTGCTTGGACATCAGGTACCAACTGCACTCGTTTTGGCATTGCAGCTAAATA  
TCAGTTGGATCCCACTGCTTCCATTTCTGCAAAGTCAACAACCTCTAGCTTAATTGGAGTAGGCTATACTCAGAC  
TC

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**FIGURE 773**

AGCTGCTGCAGCTGCAGCCCGACCGCGAGCGTGCCAAGCGGCTTCAGCAGCTAGCGGAGCGGTGGCGGCGGCCCC  
GCTCAGGAGACCACCAGATTCCCCTCTTCCCGCGGCCCTGCCATGGCGACCCACGGACAGACTTGC GCGCGTCCA  
ATGTGTATTCCCTCCATCATATGCTGACCTTGGCAAAGCTGCCAGAGATATTTTCAACAAAGGATTTGGTTTTGGG  
TTGGTGAAACTGGATGTGAAAACAAAGTCTTGCA GTGGCGTGGAATTTTCAACGTCCGGTTCATCTAATACAGAC  
ACTGGTAAAGTTACTGGGACCCTGGAGACCAAATACAAGTGGTGTGAGTATGGTCTGACTTTCACAGAAAAGTGG  
AACACTGATAACACTCTGGGAACAGAAATCGCAATTGAAGACCAGATTTGTCAAGGTTTGAAACTGACATTTGAT  
ACTACCTTCTCACCAAACACAGGAAAGAAAAGTGGTAAAATCAAGTCTTACAAGAGGGAGTGTATAAACCTTGGT  
TGTGATGTTGACTTTGATTTTGTGGACCTGCAATCCATGGTTCAGCTGTCTTTGGTTATGAGGGCTGGCTTGCT  
GGCTACCAGATGACCTTTGACAGTGCCAAATCAAAGCTGACAAGGAATAACTTTGCAGTGGGCTACAGGACTGGG  
GACTTCCAGCTACACACTAATGTCAATGATGGGACAGAAATTTGGAGGATCAATTTATCAGAAAGTTTGTGAAGAT  
CTTGACACTTCAGTAAACCTTGCTTGGACATCAGGTACCAACTGCACTCGTTTGGCATTGCAGCTAAATATCAG  
TTGGATCCCAGTCTCCATTTCTGCAAAAGTCAACAACCTCTAGCTTAATTGGAGTAGGCTATACTCAGACTCTG  
AGGCCTGGTGTGAAGCTTACACTCTCTGCTCTGGTAGACGGGAAGAGCATTAAATGCTGGAGGCCACAAGGTTGGG  
CTCGCCCTGGAGTTGGAGGCTTAATCCAGCTGAAAGAAACCTTTGGGAATGGATATCAGAAGATTGGCCTTAAT  
ATATTTCCATTGTGACCAGCAGCAGGCTTTTTTCCCCCAAGAAGATGATCAAAACAAAGGATGATCTCAACAAGA  
GCTGTATTTTAAGTATTTAGACAGTTCCTTGTAGCTGGTTCTAGTTGAATTGGTTATCTAGTTACCAATGCTG  
CAGTCCTGCAGTCACCTATACATTATTTAAATGTATTTAACTGTTAAATGCGCTACCCACCAATAATGAAATAGA  
CCTTTATGAAAA

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**FIGURE 774**

MATHGQTCAREMCIPPSYADLGKAARDIFNKGFGFGLVKLDVKTSCSGVEFSTSGSSNTDTGKVTGTLETXYKW  
CEYGLTFTEKWNTDNTLGTEIAIEDQICQGLKLTFTTSPNTGKKSGKIKSYKRECINLGCDDVDFDFAGPAIHG  
SAVFGYEGWLAGYQMTFDSAKSLTRNNFAVGVRTGDFQLHTNVNDGTEFGGSIYQKVCEDLDTSVNLAWTSGTN  
CTRFGIAAKYQLDPTASISAKVNNSSLIGVGYTQTLRPGVKLTLSALVDGKSINAGGHHKVGLEALELEA

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**FIGURE 775**

ATGGTCTGACTTTCACAGAAAAGTGGAACTGATAACACTCTGGGAACAGAAATCGCAATTGAAGACCAGATT  
GTCAAGGTTTGAAACTGACATTTGATACTACCTTCTCACCAAACACAGGAAAGAAAAGTGGTAAAATCAAGTCTT  
ACAAGAGGGAGTGTATAAACCTTGTTGTGATGTTGACTTTGATTTTGCTGGACCTGCAATCCATGGTTCAGCTG  
TCTTTGGTTATGAGGGCTGGCTTGCTGGCTACCAGATGACCTTTGACAGTGCCAAATCAAAGCTGACAAGGAATA  
ACTTTGCAGTGGGCTACAGGACTGGGGACTTCCAGCTACACACTAATGTCAATGATGGGACAGAATTTGGAGGAT  
CAATTTATCAGAAAGTTTGTGAAGATCTTGACACTTCAGTAAACCTTGCTTGGACATCAGGTACCAACTGCACTC  
GTTTTGGCATTGCAGCTAAATATCAGTTGGATCCCACTGCTTCCATTTCTGCTGGTGTGAAGCTTACACTCTCTG  
CTCTGGTAGACGGGAAGAGCATTAAATGCTGGAGGCCACAAGGTTGGGCTCGCCCTGGAGTTGGAGGCTTAATCCA  
GCTGAAAGAAACCTT



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**FIGURE 776**

GAGAAAACGGCCGGGCGGCGGTGGCTGTAGGTTGTGCGGCTGCAGCGGCTCTTCCCTGGGCGGACGATGGACAGC  
CAGGGCAGGAAGGTGGTGGTGTGCGACAACGGCACC GGTTTGTGAAGTGTGGATATGCAGGCTCTAACTTTCCA  
GAACACATCTTCCCAGCTTTGGTTGGAAGACCTATTATCAGATCAACCACCAAAGTGGGAAACATTGAAATCAAG  
GATCTTATGGTTGGTGTATGAGGCAAGTGAATTACGATCAATGTTAGAAGTTAACTACCCTATGGAAAATGGCATA  
GTACGAAATTGGGATGACATGAAACACCTGTGGGACTACACATTTGGACCAGAGAACTTAATATAGATACCAGA  
AATTGTAAATCTTACTCACAGAACCTCCTATGAACCCAAACAAAAACAGAGAGAAGATTGTAGAGGTAATGTTT  
GAAACTTACCAGTTTTCCGGTGTATATGTAGCCATCCAGGCAGTTCTGACTTTGTACGCTCAAGGTTTATTGACT  
GGTGTAGTGGTAGACTCTGGAGATGGTGTGACTCACATTTGCCAGTATATGAAGGCTTTTCTCTCCCTCATCTT  
ACCAGGAGACTGGATATTGCTGGGAGGGATATAACTAGATATCTTATCAAGCTACTTCTGTTGCGAGGATACGCC  
TTCAACCACTCTGCTGATTTTGAACGGTTCGCATGATTAAAGAAAACTGTGTTACGTGGGATATAATATTGAG  
CAAGAGCAGAACTGGCCTTAGAAACCACAGTATTAGTTGAATCTTATACACTCCCAGATGGACGTATCATCAA  
GTTGGGGGAGAGAGATTGAAGCACCAGAAGCTTTATTTAGCCTCACTTGATCAATGTTGAAGGAGTTGGTGT  
GCTGAATTGCTTTTTAACACAATTACGGCAGCTGACATTGATACCAGATCTGAATCTACAAACACATTGTGCTT  
TCTGGAGGGTCTACTATGTATCCTGGCCTGCCATCACGGTTGGAACGAGAACTTAAACAGCTTTACTTAGAACGA  
GTTTTGAAGGGTGTATGTGGAACCTTTCTAAATTTAAGATCCGCATTGAAGACCCACCCGAGAAAGCACATG  
GTATTCCCTGGGTGGTGCAGTTCTAGCGGATATCATGAAAGACAAAGACAACCTTTGGATGACCCGACAAGAGTAC  
CAAGAAAAGGGTGTCCGTGTGCTAGAGAACTTGGTGTGACTGTTGATAAACTCCAAAGCTTGTCCCGTCATA  
CCCGTAATGCTTTCTTTTTCTTTTATTGCCAATCTTTGAACCTCATTCAACTCCAGGACATGGAAGAGGCCTCTC  
TCTGCCCTTTGACTGGAAGGTCAAGTTTTATTCTGGTGTCTTGGGGAAGCTTTGTTAAATTTTTGTTAATGTGG  
GTAAATCTGAGTTTAATTCAACTGCTTCCCTACATAGACTAGAGGGCTAAGGATTCTGTCTGCTGCTTGTCTTCT  
TCTAAGTAGGCATTTAGATCATTCCTATAGGCTTCTATTTTCACTTTACTGCTCTAATGCTGCTAGTCGTAGTC  
TTTAGCACACTAGGTGGTATGCCTTTATTAGCATAAACAAAAAACTTTAACAGGAGCTTTTACATATTACTG  
GGATGGGGGGTGGTTCGGGATGGGTGGGCAGCTGCTGAACCCCTTAGGGCATTTCCTCTGTAATGTGGCGCTTTC  
AACTGTACTGCTGCAGCTTTAAGTACCTTAAAGCTTCTCCTGTGAACCTCTTAGGGAAATGTTAGGTTTCAAGCT  
AAAGTGTTTTGGGTGGGTTTTGTTGCGGGGGGAGGGTAACAATGGGTGGTCTTCTGATTTTTATTTTTGAGGTT  
TTGTCAACTGGAGTACGTAGAGGAACCTTTATTACAGTACTTTGATTTGGCAGGTTTTCTTCTACTTGTGCTCTG  
CCTGGAGCTGTTTCCATATGATATAAAAAGCAAGTGTAGTATTCCATTACTATGTGGCTTAGGGATTATTTGTT  
TTTTAAATCAACCATGTTAGCTGGGATTAGACTCCCTACAGTCTTCAATGGAAAAGTAACATTTAAAAATCCT  
TTGGGTAAATCGAATTACAGATTTAAAAGAGCTTAAGATCTGGTGTGTTTGTAAATGCTTCTGTTTATTCCAGAAG  
CATTAAAGTAACCCATTGCCAAGTATCATTCTTGCAAATTATCTTTATATAACTGACCAGTGCTTAATAAAAC  
AAGCAGGTACTTACAAATAATTACTGGCAGTAGGTTATAATTGGTGGTTTAAAAATAACATTGGAATACAGGACT  
TGTTGCCAATTGGGTAATTTTCATTAGTTGTTTTGTTTGTGTTTGAATTGAAACCTGGAAATACAGTAAATTTGA  
CTGTTTAAATGTTGGCCAAAAAATCAAGATTTAATTTTTTTTATTGTACTGAAAACTAATCATAACTGTATA  
TTCTCAGCCATCTTTGAAGCTTGAAAGAAGAGTCTTTGGTATTTTGTAAACGTTAGCAGACTTTCCTGCCAGTGT  
CAGAAAATCCTATTTATGAATCCTGTGCTGCTTTCCTGGTATCTGAAAAAATACCAAATAGTACCATACATGAG  
TTATTTCTAAGTTTGAAAAATAAAAAGAAATTGCATCACACTAATTACAAAATA

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**FIGURE 777**

ATGGAGACACTTGTACAAGTGAATCTCTTTAGAAAAGAGAGATTTACGCCAGGTACGTGGAACACAGTCTGAGCAG  
CACTGCACACCGTATCAAATCAGGTATCCTGTAGGAAGAGTACCTGGGGATGAAATCAACAAGTTCTTAGTGGAA  
TCTTCTCATTCTTAGAATGTAATGTGGTTGGATGTTTGGAAATTGGTACGAAAGGGGAGAATCCTTTCCCCCA  
TTAGGAAAATGGGGAGTGGGGGCAGAGGAAATGAAGCCCAGGTTCTTCATCGGATGGAAGTTCTCTGGTCAGTGT  
ACACAGTTTGCTCTTGAGAGGACTGATGGCCTGGGATATGTTATTGATGGTCCTGAAAGGGATCTGCGTTTGAAT  
AGGTCAGAGAAGATGTTCTGGAAGTCTGGAGACTGGGATACGCTCCCTTCCCTACAGGCTCATTATCCAGCGTT  
CTGGCAGTACCTCTGGTACCGCACAGACTTCAGGGGACCTTGAACAAGCTCCATTTTGTCTCCTGGAAGCTCAT  
TCCACCAGGTTTGAGTATGAGCTTCACCACTCGCTCCACCTTCTCCACCAACTACCAGTCCCTGGGCTCTGTCCA  
GGTGCCAGCTAAGACGCTCGGCCAGTCAGCAGCATGACCAGTATCTCTGCAGGGGCTGGGGGCTCTGGTTCCCA  
GATCTCCATGTCCCCCTCCACCAGCTTCTGGGGTGGCATGGGGTCTGGGGCCCTGGCCGTGGGGATGGCCAGGGT  
TCTGGCAGGATGGAAGACATCCAGAACAAGAAGGAGACCATGCAAAGCCTGAATGACTGCCTGGCCTCTACCTG  
GACAGAGTGAGGAGACTGGATACCAAGAATCGGAAGCTGGAGAGCAAAATCCGGGAGCACCTGGAGAAGAAGGGA  
CCCCAAGTCAGAGACTGGAGCCATTACTTCAAGACCGTGGAGGACCTGAGGGCTCAGATCTTCGCAAATACTGTG  
GACAATGCCCCGATCGTTCTGCAAGTCGACAATGCCCATCTTGCTGATGACTTTAGAGTCAAGTATGTGACAGAG  
CTGGCCATGCGCCAGTCTATGGAGAGCGACATCCATGGGCTCCGCAAGGTCATTGATGACACCAATGTCACTCGG  
CTGCAGCTGGAACAGAGATCGAGGCTCTCAAGGAGGAGCTGCTCTTCATGAAGAAGAACGAAGAAGGGGAAATA  
AAAGGCCTACAAGCCCAGATTGCCAGCTCTGGGTTGACTGTGGAGGTAGATATCCCCAAATCTCAGGACCTTGCC  
AAGCTCATGGCAGACATCTGGGCCCAATATGATGAGCTGGCTCGGAAGAGCCAAGAGGAGCTGGGCAAGTACTGG  
TCTCAGCAGATTGAGGAGAGTATCACAGTAGTCACCATGCAGTCCACCGAGATGGAGCAGTTCAACAGGATCCTG  
CTGCACCTGGAGTCAGAGCTGGCACAGACCTGGGCAGAGGGACAGTGCCAGGCCCAGGAGTACGAGGCCCTGCTG  
AGCATCAGGGTCAAGCTGGAGGCTGAGATCGCCACCTACCACCACCTGCTGGAAGATACCACCACCGGCCGGATA  
GTGGATGGCAAAGTGGGGTCTGAGACCAACAACACCAAAGTTCTGAGACATTAA

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**FIGURE 778**

METLVQVNLFRKRDLRQVRGTQSEQHCTPYQIRYPVGRVPGDEINKFLVESSHFLVCNVVGCLEIGTKGENPFPQ  
LGKVGVGAEEMKPRFFIGWKFSGQCTQFALERTDGLGYVIDGPERDLRLNRSEKMFWKSGDWDTLPSLQAHSSSV  
LAVPSGTAQTSQDLEQAPFCLLEAHSTRFEYELHHSLLHQLPVPGLCPGAQLRRSASQQHDQYLCRGWGLWFP  
DLHVPLHQLLGWHGVWGPGRGDGQSGRMEDIQNKKETMQSLNDCLASYLDRVRRLDTKNRKLESKIREHLEKKG  
PQVRDWSHYFKTVEDLRAQIFANTVDNARIVLQVDNAHLADDFRVKYVTELAMRQSMESDIHGLRKVIDDTNVTR  
LQLETEIEALKEELLFMKKNEEGEIKGLQAQIASSGLTVEVDIPKSQDLAKLMADIWAQYDELARKSQEELGKYW  
SQQIEESITVVMQSTEMEQFNRIILLHLESELAQTWAEGQCQAQYEALLSIRVKLEAEIATYHHLEDTTTGRI  
VDGKVGSETNNIKVLRH

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**FIGURE 779A**

CGGTCCCTCGCCGCGCCGCCCGAGGGGCACTTCCGGCGGCGGTTCACTTCCTGGTTGGGTGGATGGAGCCGGGG  
GGGAGCGCGCGCGGGGGAGGGGCGCGGGTCAGTCTCGCCCGCGCTCCCGGGATCAGCTGGCGGGCGGGCGGG  
AGCCGAGCGCGCGCCCGGCTCTCGCTGCAGCGCCGCTCTTCTCTCGCTCGCAGGCCGCGCCGGCGGGCGGTGACA  
ATGTCGCGGGGCTGGTAGCAGGGCGCGGCCGCCGAGCCGCTCTCAAGTTTAACTTACACGAATCGCTTTCTGGA  
GGAGGAGGGGACCGCTGCGCGATTGACACGCATATTCCTATAGGCATCCTCCCTCAGCCCCACCCCCACGGCC  
GGATTGCGGTGGCTCCTCTCCGAGGTGAAATCTGAGAAGAAATCCTTGGATCTCTTTTCTTAAAAAAAAAAAAA  
AAAAAAAAAATCTAGAAACCATCGGTATTTTGCTTTGCTGCTCCCTATTTCGCAAGATGAAGAAGTTTTTCGACTC  
CCGGCGAGAGCAGGGCGGCTCTGGCTGGGCTCCGGCTCCAGCGGAGGAGGGGCGAGCACCTCGGGCCTGGGCGAG  
TGGCTACATCGGAAGAGTCTTCGGCATCGGGCGACAGCAGGTACAGTGGACGAGGTGTTGGCGGAAGGTGGATT  
TGCTATTGTATTTCTGGTGAGGACAAGCAATGGGATGAAATGTGCCTTGAAACGCATGTTTGTCAACAATGAGCA  
TGATCTCCAGGTGTGCAAGAGAGAAATCCAGATAATGAGGGATCTTTCAGGGCACAAGAATATTGTGGGTTACAT  
TGATTCTAGTATCAACAACGTGAGTAGCGGTGATGTATGGGAAGTGCTCATTCTGATGGACTTTTGTAGAGGTGG  
CCAGGTGGTAAACCTGATGAACAGCGCCTGCAAACAGGCTTTACAGAGAATGAAGTGCTCCAGATATTTTGTGA  
TACCTGTGAAGCTGTGCGCGCTGCATCAGTGCAAACTCCTATTATCCACCGGGACCTGAAGGTTGAAAACAT  
CCTCTGTCATGACCGAGGCCACTATGTCCTGTGTGACTTTGGAAGCGCCACCAACAAATTCAGAATCCACAAC  
TGAGGGAGTCAATGCAGTAGAAGATGAGATTAAGAAATACACAACGCTGTCTATCGAGCACCAGAAATGGTCAA  
CCTGTACAGTGGCAAATCATCACTACGAAGGCAGACATTTGGGCTCTTGGATGTTTGTGTATAAATATGCTA  
CTTCACTTTGCCATTTGGGGAAAGTCAGGTGGCAATTTGTGATGGAACTTCACAATTCCTGATAATTCTCGATA  
TTCTCAAGACATGCACTGCCTAATTAGGTATATGTTGGAACAGACCCTGACAAAAGGCCGGATATTTACCAGGT  
GTCTTACTTCTCATTAAAGCTACTCAAGAAAGAGTGCCCAATTCCAAATGTACAGAACTCTCCCATTCCTGCAA  
GCTTCTGAACCACTGAAAGCCAGTGAGGCAGCTGCAAAAAGACCCAGCCAAAGGCCAGACTGACAGATCCCAT  
TCCCACCACAGAGACTTCAATTGCACCCCGCCAGAGGCCAAAGCTGGGCAGACTCAGCCGAACCCAGGAATCCT  
TCCCATCCAGCCAGCGCTGACACCCCGGAAGAGGGCCACTGTTAGCCCCACCTCAGGCTGCAGGATCCAGCAA  
TCAGCCTGGCCTTTTAGCCAGTGTTCCCAACCAAAACCCCAAGCCCCACCCAGCCAGCCTCTGCCGCAAACTCA  
GGCCAAGCAGCCACAGGCTCCTCCCACTCCACAGCAGACGCTTCTACTCAGGCCCAGGGTCTGCCCGCTCAGGC  
CCAGGCCACACCCACAGCACCAGCAGCAACTCTTCTCAAGCAGCAACAGCAGCAGCAACAGCCACCGCCAGCACA  
GCAGCAGCCGGCAGGCACGTTTTTACCAGCAGCAGCAGGCCCAGACTCAGCAGTTTTCAGGCAGTACATCCAGCAAC  
CCAGAAAACAGCAATTGCTCAGTTCCCTGTGGTGTCCCAAGGAGGCTCTCAACAGCAGCTAATGCAGAATTTCTA  
CCAGCAGCAGCAGCAGCAGCAACAACAACAGCAACAGCTGGCCACAGCCCTGCATCAACAACAGCTGAT  
GACTCAGCAGGCTGCCTTGAGCAAAAAGCCCACTATGGCAGCAGGACAGCAGCCCCAGCCACAGCCAGCTGCAGC  
CCCACAGCCAGCCCTGCCCAGGAGCCAGCGATTCAAGCCCCAGTAAGACAACAGCCAAAGGTTTACAGACAACCCC  
ACCTCCTGCCGTCCAGGGGCGAGAAAGTTGGATCTCTCACTCCACCCCTCATCCCCAAAACCAACGTGCTGGGCA  
CAGGCGTATTCTCAGTGACGTAACCCACAGTGCACTTTGGGGTCCCTGCCAGCAAATCAACCCAGCTGCTCCA  
GGCAGCTGCAGCTGAGGCCAGTCTCAATAAGTCCAAGTCTGCAACCACCACTCCATCAGGCTCTCCTCGGACCTC  
TCAACAAAACGTTTATAATCCTTCAGAAGGCTTACGTGGAATCCCTTTGATGACGATAATTTCTCCAACTCAC  
AGCTGAAGAACTGCTAAACAAGGACTTTGCCAAGCTTGGGAAGGCAAACATCCCGAGAAGCTTGGAGGCTCAGC  
TGAGAGTTTGATCCAGGCTTTCAATCAACCAAGGTGATGCTTTTGCTACGACCTCATTTTCTGCTGGAAGTGC  
TGAAAAAAGGAAGGTGGGCGAGCTGTGGACTCTGGCCTCCCGCTTCTAAGCGTGTCTGATCCTTTCATTCTCT  
TCAAGTACCTGATGCACCAGAAAACTAATTGAGGGACTCAAACTCTCTGACACTTCTCTTCTGCTCCCTGACCT  
CTTGCTATGACAGATCCTTTTGGTAGCACTTCTGATGCTGTAATTGGTAAAGTCATCATCTCTGTTTCTTCACT  
CATGCATGATATGTGTGCTGTTTCAAGAATGACAAGTACCTAGTTAACCAATCCCTGGGGAATAGCCCTGCCAC  
CCCAGAAGCCAAGGCTATTTAATCTCACTTGATCACTCCAAATGAAGTGTTTTCTTGCTTTTTCGGGGGTACAA  
CGTCTATTTTTTGCTTTCTTGATATCTGGAGATTTCTAGAGTGGATCTCTTATGAATGAGGAGGAATGTGAAA  
GTTTCACATTTAGTTAGAAGAACTTTAAAAAATTGGTTTCTAACTAGACTACCTTTACTGAAGTAAATGAAATTT  
AGCAGATTCTTCTTTTTTTTTTTTTTTGTTTGGACAGAGTTTCACTCTTGTGCTAGGCTGGAGTGAATGGCA  
AGATCTCAGCTCACTGCAACCTCCATCTCCCGGTTCAAGCAATCTCCTGCCTCAGCCTCCCGAGTAGCTGAGA  
TTACAGGCATGCACCACCATGCCTGGCTAATTTTATATTTTATAGTAGAGATAGGGTTTCTCCATGTTGGTCAGG  
CTGGTCTGCAACTCCTGACCTCAGGTGATCCACCTGCCTTGGCCTCCCAAGTGCTGGGATTACAGGGGTGAGCC

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**FIGURE 779B**

ACCATGCCAGCCAGATTCTTCTTTAGAGGCCCATGTACATCCAGCTGCAGTGGGACGAGCCTGGGAAGCATA  
GGAAGACCCCATCCCTACAAAAAAATGTTGTTAGTTAGCCAGGTGTGGGGGTGCACACCTGTGCTACCAGCTCT  
TTGGGAGGCTGAGACGGAAGATCACTTTGAGCCAGGGGGTTTGAGGCTGCAGTGAGCCCTGATCATGCCACTGCC  
CTCCAGCTTAAGTGACAGAGACCCATCTTAAACAAAATTTAAAAAGGTCCATGTATATACCAAGTAT  
CAGTAACTGAGAAAACATTTTGCCCACTGGTTAAGCCCCATAAATAGAATCCAGGGCAGGGGCTTGGTCTGCTTC  
CTCTCTCACATTTTCCTATGTTCCAACAGCAAGGCAGGCAAGATTTCAGAAAATGTCCAAGGCCCTGTACTCCAG  
GAGGGTCCAATCATGAGGCACCTAATAATGCCTTTGGGCAGAAAGTCCTAGAACTCAGAAGTGCCATGACCTTGC  
ATAGGGGTAGGCCTGCAGCTGAGGGGTGTCACGTGGTGCAAAAGGCCTCCAGCTACATCCTGGGATGGGGTTTG  
AGATGGATTAATGGCCTTTGTCATGGCACAGAGGATGTTTGCCCCCAGGTTTATCCCTTAATAAAAGTGAAATTAC  
CAGAAAAAATTAAGGTGCCTTTCAGCCCATCTCTTCTGACATGGAAGAGGTTTGCTGAGCGGCTTATGTTCTGAA  
TTTGTATGAGAACTGATCATTAGTGAGACTGGCCACAGTATTTAACCTTGACATGCATGCTCAGTGAAGCCT  
AGACATTGAGAGCAGCAGAAATAAAGTAACTTATTTTCTTTCCACCTTGCTGAGACTGGCATTCTTAGAGACCT  
GTTAAAAGAAAGTCTTCACATGGCTGGGTGCAGTGGCTCACACTTGTAACACAGGACTTTGGGAGGCCAAGGTG  
GGATAGATCGCTTGAGCTCAGGAGCAAGACACCATCTCAAAAAATGAGAATT

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**FIGURE 780**

GCCCCAGGTGCGCTTCCCCTAGAGAGGGGATTTTCCGGTCTCGTGGGCAGAGGAACAACCAGGAACTTGGGCTCAG  
TCTCCACCCCAACAGTGGGGCGGATCCGTCCCGGATAAGACCCGCTGTCTGGCCCTGAGTAGGGTGTGACCTCCGC  
AGCCGCAGAGGAGGAGCGCAGCCCGGCTCGAAGAACTTCTGCTTGGGTGGCTGAACTCTGATCTTGACCTAGAG  
TCATGGCCATGGCAACCAAAGGAGGTACTGTCAAAGCTGCTTCAGGATTCAATGCCATGGAAGATGCCCAGACCC  
TGAGGAAGGCCATGAAAGGGCTCGGCACCGATGAAGACGCCATTATTAGCGTCCTTGCCCTACCGCAACACCGCCC  
AGCGCCAGGAGATCAGGACAGCCTACAAGAGCACCATCGGCAGGGACTTGATAGACGACCTGAAGTCAGAACTGA  
GTGGCAACTTCGAGCAGGTGATTGTGGGGATGATGACGCCACGGTGTCTGTATGACGTGCAAGAGCTGCGAAGGG  
CCATGAAGGGAGCCGGCACTGATGAGGGCTGCCTAATTGAGATCCTGGCCTCCCGGACCCCTGAGGAGATCCGGC  
GCATAAGCCAAACCTACCAGCAGCAATATGGACGGAGCCTTGAAGATGACATTGCTCTGACACATCGTTTCATGT  
TCCAGCGAGTGTGGTGTCTCTGTGACGTGGTGGGAGGGATGAAGGAAATTATCTGGACGATGCTCTCGTGAGAC  
AGGATGCCCAGGACCTGTATGAGGCTGGAGAGAAGAAATGGGGGACAGATGAGGTGAAATTTCTAACTGTTCTCT  
GTTCCCGGAACCGAAATCACCTGTTGCATGTGTTTGATGAATACAAAAGGATATCACAGAAGGATATTGAACAGA  
GTATTAAATCTGAAACATCTGGTAGCTTTGAAGATGCTCTGCTGGCTATAGTAAAGTGCATGAGGAACAAATCTG  
CATATTTTGTCTGAAAAGCTCTATAAATCGATGAAGGGCTTGGGCACCGATGATAACACCCTCATCAGAGTGATGG  
TTTCTCGAGCAGAAATTGACATGTTGGATATCCGGGCACACTTCAAGAGACTCTATGGAAAGTCTCTGTACTCGT  
TCATCAAGGGTGACACATCTGGAGACTACAGGAAAGTACTGCTTGTTCTCTGTGGAGGAGATGATTAAAATAAAA  
ATCCCAGAAGGACAGGAGGATTCTCAACACTTTGAATTTTTTAACTTCATTTTCTACACTGCTATTATCATT  
TCTCAGAATGCTTATTTCCAATTAACCGCTACAGCTGCCTCCTAGAATATAGACTGTCTGTATTATTATCAC  
CTATAATTAGTCATTATGATGCTTTAAAGCTGTACTTGCAATTTCAAAGCTTATAAGATATAAATGGAGATTTTAA  
AGTAGAAATAAATATGTATTCCATGTTTTTAAAGATTACTTTCTACTTTTGTTTCACAGACATTGAATATATT  
AAATTATTCCATATTTTCTTTTTCAGTGAAAAATTTTTTAAATGGAAGACTGTTCTAAAATCACTTTTTTCCCTAA  
TCCAATTTTATAGAGTGGCTAGTAGTTTCTTCATTTGAAATTGTAAGCATCCGGTCAGTAAGAATGCCCATCCAGT  
TTTCTATATTTATAGTCAAAGCCTTGAAAGCATCTACAAATCTCTTTTTTTAGGTTTTGTCCATAGCATCAGTT  
GATCCTTACTAAGTTTTTTCATGGGAGACTTCCTTCATCACATCTTATGTTGAAATCACTTTCTGTAGTCAAAGTA  
TACCAAACCAATTTATCTGAACTAAATTCTAAAGTATGGTTATACAAACCATATACATCTGGTTACCAAACATA  
AATGCTGAACATTCCATATTATTATAGTTAATGTCTTAATCCAGCTTGCAAGTGAATGGAAAAAATAAGCTT  
CAAAGTAGGTATTCTGGGAATGATGTAATGCTCTGAATTTAGTATGATATAAAGAAAACTTTTTGTGCTAAAAA  
TACTTTTTAAATCAATTTTGTGATTGTAGTAATTTCTATTGCACTGTGCCTTTCAACTCCAGAAACATTCTG  
AAGATGTACTTGATTAAATTAAGTTCACTTTGT

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**FIGURE 781**

MAMATKGGTVKAASGFNAMEDAQTLRKAMKGLGTDEDAIISVLAYRNTAQRQEIRTAYKSTIGRDLIDDLKSELS  
GNFEQVIVGMMTPTVLYDVQELRRAMKGAGTDEGCLIEILASRTPEEIRRISQTYQQYGRSLEDDIRSDTSFMF  
QRVLVSLSAGGRDEGNYLDDALVRQDAQDLYEAGEKKWGTDEVKFLTVLCSRNRNHLHVFDEYKRISQKDIEQS  
IKSETSGSFEDALLAIVKCMRNKSAYFAEKLYKSMKGLGTDDNTLIRVMVSRAEIDMLDIRAHFKRLYGKSLYSF  
IKGDTSGDYRKVLLVLCGGDD

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**FIGURE 782**

CGCCACCGCCGCGCCCTCGCCACCCGCCCGCCCGCCGCTCCCGGCCCGCTCGCCCCCTCCGCGCCGCGCCG  
GCCCCCTGCGACTACGCTGCGGCCCTCCCGCCCGCTCCCGCTCGCTCCCGCGGCCCTCGCTCGCCTCGCGCCGGCAG  
TTTTGGGCCTACACCTCCCCTCCCCCGCCAGCCGCCAAAGACTTGACCACGTAACGAGCCCAACTCCCCGAAC  
GCGCGCCGCGCTCGCCATGGATGCCGGTGTGACTGAAAGTGGACTAAATGTGACTCTCACCATTGCGCTTCTTA  
TGCACGGAAAGGAAGTAGGAAGCATCATTGGGAAGAAAGGGAGTCGGTTAAGAGGATCCGCGAGGAGAGTGGCG  
CGCGGATCAACATCTCGGAGGGGAATTGTCCGGAGAGAATCATCACTCTGACCGGCCCCACCAATGCCATCTTA  
AGGCTTTCGCTATGATCATCGACAAGCTGGAGGAAGATATCAACAGCTCCATGACCAACAGTACCGCGGCCAGCA  
GGCCCCCGGTACCCCTGAGGCTGGTGGTGCCGGCCACCCAGTGCGGCTCCCTGATTGGGAAAGGCGGGTGTAAAG  
TCAAAGAGATCCGCGAGAGTACGGGGGCGCAGGTCCAGGTGGCGGGGGATATGCTGCCCAACTCCACCGAGCGGG  
CCATCACCATCGCTGGCGTGCCGAGTCTGTCAACGAGTGTGTCAAGCAGATTTGCCTGGTCATGCTGGAGACGC  
TCTCCCAGTCTCCGCAAGGGAGAGTCATGACCATTCCGTACCAGCCCATGCCGGCCAGCTCCCCAGTCATCTGCG  
CGGGCGGCCAAGATCGGTGCAGCGACGCTGCGGGCTACCCCCATGCCACCCATGACCTGGAGGGACCACCTCTAG  
ATGCCTACTCGATTCAAGGACAACACACCATTTCTCCGCTCGATCTGGCCAAGCTGAACCAGGTGGCAAGACAAC  
AGTCTCACTTTGCCATGATGCACGGCGGGACCGGATTGCGCGGAATTGACTCCAGCTCTCCAGAGGTGAAAGGCT  
ATTGGGCAAGTTTGGATGCATCTACTCAAACCACCCATGAACTCACCATTCCAAATAACTTAATTGGCTGCATAA  
TCGGGCGCCAAGGCGCCAACATTAATGAGATCCGCCAGATGTCCGGGGCCAGATCAAAATTGCCAACCCAGTGG  
AAGGCTCCTCTGGTAGGCAGGTTACTATCACTGGCTCTGCTGCCAGTATTAGTCTGGCCCAGTATCTAATCAATG  
CCAGGCTTTCCTCTGAGAAGGGCATGGGGTGCAGCTAGAACAGTGTAGGTTCCCTCAATAACCCCTTCTGCTGT  
TCTCCCATGATCCAACGTGTGTAATTTCTGGTCAGTGATTCCAGGTTTTAAATAATTTGTAAGTGTTCAGTTTCTA  
CACAACTTTATCATCCGCTAAGAATTTAAAAATCACATTCTCTGTTTACGCTGTTAATGCTGGGATCCATATTTAG  
TTTTATAAGCTTTTCCCTGTTTTTAGTTTTGTTTTGGGTTTTTGGCTCATGAATTTTATTTCTGTTTGTGATA  
AGAAATGTAAGAGTGGAAATGTTAATAAATTTAGTTTTAGTTCTGTAATGTCAAGAATTTAAGAATTA AAAAACGG  
ATTGGTTAAAAAATGCTTCATATTTGAAAAAGCTGGGAATTGCTGTCTT



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**FIGURE 783**

CCAAGCTGAACCAGGTGGCAAGACAACAGTCTCACTTTGCCATGATGCACGGCGGGACCGGATTGCGCGGAATTG  
ACTCCAGCTCTCCAGAGGTGAAAGGCTATTGGGCAAGTTTGGATGCATCTACTCAAACCACCCATGAACTCACCA  
TTCCAAATAACTTAATTGGCTGCATAATCGGGCGCCAAGGCGCCAACATTAATGAGATCCGCCAGATGTCCGGGG  
CCCAGATCAAATTGCCAACCCAGTGGGAAGGCTCCTCTGGTAGGCAGGTTACTATCACTGGCTCTGCTGCCAGTA  
TTAGTCTGGCCCAGTATCTAATCAATGCCAGGCTTTCCTCTGAGAAGGGCATGGGGTGCAGCTAGAACAGTGTAG  
GTTCCCTCAATAACCCCTTTCTGCTGTTCTCCCATGATCCAACGTGTGTAATTTCTGGTCAGTGATTCCAGGTTTT  
AAATAATTTGTAAGTGTTTCAAGTTTCTACACAACCTTTATCATCCGCTAAGAATTTAAGCTTTTCCTGTTTTAGT  
TTTGTTTTGGGTTTTTTGGCTCATGAATTTTA

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**FIGURE 784**

CGCAGAGCTCGCGCGTCGGTGTGGTTACAGCCGGCAGCCACGGCACCTCCTTCCGGCCGACTAGTCTCCAGGTCC  
CGCGGTCTGGCCCCCTGGTCACCCGGCGCTGTCCCTCGTTCCTTGAAGATCTCCAGTGCTACCTTTTGTGTAACAT  
CTCGAATACACCAAACCTTCTAGCTGCTAATACTCAGATTTATGGACAAGAAGTTATCATTGAAATTAAATGGTG  
GCAGACATGTCCAAGGAATATTGCGGGGATTTGATCCCTTTATGAACCTTGTGATAGATGAATGTGTGGAGATGG  
CGACTAGTGGACAACAGAACAATATTGGAATGGTGGTAATACGAGGAAATAGTATCATCATGTTAGAAGCCTTGG  
AACGAGIATAAATAATGGCTGTTTCAGCAGAGAAACCCATGTCCTCTCTCCATAGGGCCTGTTTTACTATGATGTA  
AAAATTAGGTCATGTACATTTTTCATATTAGACTTTTTGTAAATAAACTTTTGTAATAGTCAAAAATGCTTTCTC  
AGATGTTCTGAATATAGAATATCAGCTCTCATTCCAGTTTTTTCTAACATGAATTTTCCTGGTTGACATTGATT  
CAAAGGGTTTTATGCATTAAAGTGAAAGAATCTTATTAAATGTGAAACATGGCAAGGATTCCTTCTGTCCATCAT  
CTTCAACACTGAACAGATAAAGAAGTTACAAACATGAGTGAGTTTCTTCTAAAACACTAATTTTC

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**FIGURE 785**

GTACGCCGATTCCATATGGGCGCCGGCGCGGAGCGCCGCGGGGCGAGCGCGGGGTCGCCATGGCTGAGCTGCAGCA  
GCTCCGGGTGCAGGAGGCGATGGAGTCCATGGTGAAGAGTCTGGAAAGAGAGAACATCCGGAAGATGCAGGGTCT  
CATGTTCCGGTGCAGCGCCAGCTGTTGTGAGGACAGCCAGGCCTCCATGAAGCAGGTGCACCAGTGCATCGAGCG  
CTGCCATGTGCTCTGGCTCAAGCCCAGGCTTTGGTCAACCAGTGAGCTGGAGAAGTTCAGGACCGCCTGGCCCCG  
GTGCACCATGCAATGCAATGACAAAGCCAAAGATTCAATAGATGCTGGGAGTAAGGAGCTTCAGGTGAAGCAGCA  
GCTGGACAGTTGTGTGACCAAGTGTGTGGATGACCACATGCACCTCATCCCACTATGACCAAGAAGATGAAGGA  
GGCTCTCTTATCAATTGAAAAATAAAGTATTTGCCAGTGGCCATCAGGCTGAGGGCAAGAATATATTTTTTATA  
AGGAATTGGGAATTTTAGTCTTTTAAGCAAAGTTTACGAATGAAGAAATGAAGGATGGCCACAAGCGTAAGGCAT  
AIGTCACTTGCTCTGGACACTGGTTATTTTATGTTTCAGTCCCTAAAAAATGAAATGGAAAAAAGTGGTGCTAA  
ATCGAGTCAGAGATATTACAGGAGAGTTTTAGAGCTTATTATTTCTGTGGCCAGTGTGTCTTGGCAGTAAGG  
CTCTCCCTGTAAACAAGCCAGAGCCCTCCAAGGTACCAGACTCTTCTTACTACACAGGTACTAACAGGCTGGCAG  
GTTAGAGTTGGTGGAGTCTGAGGAGAGATATTTTCTTTGTTGCCAACATCCTGTTTACCAAAAGTGTCACCCC  
ACCATCTTCCATAAGCTGTGAAACAAAATCAATGAGGTCACTAACTTAGAAGGGAAGAAAGTTTTCTGGGTCTT  
TGTTTTCTTGATTGGGGTAATTTATACAAGGGCATACAAGTTGATTTTAAGATGTGGAAGTGGGAGGTAGACTA  
GTTTGGATAAGAAGTTTGAAATGTTCTTGTGGATCCCCATTTCTGGTCATCAAGATGTGGATGTACATTTCTTA  
AAATTATTACATGCTGCATCTTTCAGCCTGGAGACTGTGCAGAAACATGAGAGGTGATGACACACTAATTATGGG  
AAGCAGAATTACTGGCTGATGGCCCCTGAGGCTGTGTGTAACAAAATGACAGGACAATCTTGACAGTAACACTTTC  
CCCTTGAAGAGAAGGGGGTTTTGATTGTGATATATACTAGTATCTAGGAATGAACAGTAAAGAGGAGCAGTTGG  
CTACTTGATTACAACAGAGTAAATGAAGTACTGGATTGGGAAAACCTGGTTTTATTAGAACATATGGAATGAAA  
GCCTACACCTAGCATTGCCTACTTAGCCCCCTGAATTAACAGAGCCCAATTGAGACAAACCCCTGGCAACAGGAA  
ATTCAAGGGAGAAAAAGTAAGCAACTTGGGCTAGGATGAGCTGACTCCCTTAGAGCAAAGGAGAGACAGCCCCCA  
TTACCAAATACCATTTTTGCCTGGGGCTTGTGCAGCTGGCAGTGTTCCTGCCCCAGCATGGCACCTTATTGTTTT  
GATAGCAACTTCGTTGAATTTTACCAACTTATTACTTGAAATTATAATATAGCCTGTCCGTTTGCTGTTTCCAG  
GCTGTGATATATTTCTAGTGGTTTGACTTTAAAAATAAATAAGGTTTAATTTTCTCCCC

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**FIGURE 786**

MAELQQLRVQEAMESMVKSLEARENIRKMQGLMFRCSASCCEDSQASMKVHQCIERCHVPLAQAQALVTSELEKF  
QDRLARCTMHCNDKAKDSIDAGSKELQVKQQLDSCVTKCVDDHMHLIPTMTKKMKEALLSIGK

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**FIGURE 787A**

CAGACCCGCCCGTGGCTGCAGCAGTGGTGTCCCATTTTAATGACTGCCAGATTCCCACACTCAGTTCTGCTTCC  
ATGGAACCTGCAGGTTTTTGGTGCAGGAGGACAAGCCAGCATGTGTCTGCCATTCTGGGTACGTTGGTGCACGCT  
GTGAGCATGCGGACCTCCTGGCCGTGGTGGCTGCCAGCCAGAAGAAGCAGGCCATCACCGCCTTGGTGGTGGTCT  
CCATCGTGGCCCTGGCTGTCTTATCATCACATGTGTGCTGATACACTGCTGCCAGGTCCGAAAACACTGTGAGT  
GGTGGCGGGCCCTCATCTGCCGGCACGAGAAGCCAGCGCCCTCCTGAAGGGAAGAACCCTTGGTGGCACTCAG  
AAACAGTGGTCTGAAGAGCCAGAGGAGGAGTTTGGCCAGGTGGACTGTGGCAGATCAATAAAGAAAGGCTTCTT  
CAGGACAGCACTGCCAGAGATGCCTGGGTGTGCCACAGACCTTCCTACTTGGCCTGTAATCACCTGTGCAGCCTT  
TTGTGGGCTTCAAACTCTGTCAAGAACTCCGTCTGCTTGGGGTTATTAGTGTGACCTAGAGAAGAAATCAGC  
GGACCAGATTTCAAGACTTGTAAAAAAGAACTGCAAGAGACGGACTCCTGTTACCTAGGTGAGGTGTGTGC  
AGCAGTTGGTGTCTGAGTCCACATGTGTGCAGTTGTCTTCTGCCAGCCATGGATTCCAGGCTATATATTCTTTT  
TAATGGGCCACCTCCCCACAACAGAATTCTGCCCAACACAGGAGATTCTATAGTTATTGTTTTCTGTCATTTGC  
CTACTGGGAAGAAAGTGAAGGAGGGGAACTGTTAATATCACATGAAGACCCTAGCTTTAAGAGAAGCTGTAT  
CCTCTAACCACGAGACCCTCAACCAGCCCAACATCTTCCATGGACACATGACATTGAAGACCATCCCAAGCTATC  
GCCACCCTTGGAGATGATGTCTTATTTATTAGATGGATAATGGTTTTATTTTTAATCTCTTAAGTCAATGTAAAA  
AGTATAAAACCCCTTCAGACTTCTACATTAATGATGTATGTGTTGCTGACTGAAAAGCTATACTGATTAGAAATG  
TCTGGCCTCTTCAAGACAGCTAAGGCTTGGGAAAAGTCTTCCAGGGTGCGGAGATGGAACCAGAGGCTGGGTAC  
TGGTAGGAATAAAGGTAGGGGTTTCAAGAAATGGTGCCATTGAAGCCACAAAGCCGGTAAATGCCTCAATACGTTCT  
GGGAGAAAACCTTAGCAAATCCATCAGCAGGGATCTGTCCCTCTGTTGGGGAGAGAGGAAGAGTGTGTGTCTA  
CACAGGATAAAACCAATACATATTGTACTGCTCAGTGATTAAATGGGTTCACTTCTCGTGAGCCCTCGGTAAGT  
ATGTTTAGAAATAGAACATTAGCCACGAGCCATAGGCATTTTCAGGCCAAATCCATGAAAGGGGACAGTCATTT  
ATTTTCCATTTTGTGCTTGGTTGGTTTGTGTGCTTATTTTTTAAAGGAGAAGTTTAACTTTGCTATTTATTTT  
GAGCACTAGGAAAACCTATTCAGTAATTTTTTTTTTCCCTCATTTCATTTCAGGATGCCGGCTTTATTAACAAAAAC  
TCTAACAAGTCACCTCCACTATGTGGGTCTTCCCTTCCCTCAAGAGAAGGAGCAATTGTTCCCTTGAGCATCTG  
GGTCCATCTGACCCATGGGGCCTGCCTGTGAGAAACAGTGGGTCCCTTCAAATACATAGTGATAGCTCATCCCT  
AGGAATTTTCAATAAATTTGGAAACAGAGTAATGAAGAAATAATATATAAACTCCTTATGTGAGGAAATGCTAC  
TAATATCTGAAAAGTGAAAGATTTCTATGTATTAACCTTAAAGTGACCTAGCTTATTACATCGTGAAAGGTACA  
TTTAAATATGTTAAATTTGGCTTGAAATTTTTCAGAGAATTTGTCTTCCCTAATTCTTCTTCTTGGTTGGAA  
GAACAATTTCTATGAATTTTCTCTTTATTTTTTTTTATAATTTCAGACAATTCTATGACCCGTGTCTTCTTTTG  
GCACTCTTATTTAACAATGCCACACCTGAAGCACTTGGATCTGTTTCAGAGCTGACCCCTAGCAAGTATTGAC  
ACAGCTCCAGGTTTTTAAATTACTAAATAAGTTCAAGTTTACATCCCTTGGGCCAGATATGTGGGTTGAGGCTT  
GACTGTAGCATCTGCTTAGAGACCAATCAACGGACACTGGTTTTTAGACCTCTATCAATCAGTAGTTAGCATCC  
AAGAGACTTTGCAGAGGCGTAGGAATGAGGCTGGACAGATGGCGGAAGCAGAGGTTCCCTGCGAAGACTTGAGAT  
TTAGTGTCTGTGAATGTTCTAGTTCCTAGGTCCAGCAAGTCACACCTGCCAGTGCCTCATCCTTATGCCTGTAA  
CACACATGCAGTGAGAGGCCTCACATATACGCCTCCCTAGAAGTGCCTTCCAAGTCAGTCTCTTGGAAACCAGCA  
GGTCTGAAAAGAGGCTGCATCAATGCAAGCCTGGTTGGACCATGTCCATGCCTCAGGATAGAACAGCCTGGCT  
TATTTGGGGATTTTTCTTCTAGAAATCAAATGACTGATAAGCATTTGGATCCCTCTGCCATTTAATGGCAATGGTA  
GTCTTTGGTTAGCTGCAAAAATACTCCATTCAAGTTAAAAATGCATCTTCTAATCCATCTCTGCAAGCTCCCTG  
TGTTTCCCTTGCCCTTTAGAAAATGAATTGTTCACTACAATTAGAGAATCATTTAACATCCTGACCTGGTAAGCTG  
CCACACACCTGGCAGTGGGGAGCATCGCTGTTTCCAATGGCTCAGGAGACAATGAAAAGCCCCCATTTAAAAAAA  
TAACAAACATTTTTTAAAGGCCTCCAATACTCTTATGGAGCCTGGATTTTTTCCCACTGCTCTACAGGCTGTGAC  
TTTTTTAAGCATCTGACAGGAAATGTTTTCTTCTACATGGAAGATAGACAGCAGCCAACCCTGATCTGGAAG  
ACAGGGCCCCGGCTGGACACACGTGGAACCAAGCCAGGATGGGCTGGCCATTGTGTCCCCGAGGAGAGATGGG  
CAGAAATGGCCCTAGAGTTCTTTTCCCTGAGAAAGGAGAAAAAGATGGGATTGCCACTACCCACCCACACTGGTA  
AGGGAGGAGAATTTGTGCTTCTGGAGCTTCTCAAGGGATTGTGTTTTGCAGGTACAGAAAACCTGCCTGTTATCTT  
CAAGCCAGGTTTTTCAGGGCACATGGGTCACCAAGTTGCTTTTTTCAGTCAATTTGGCCGGGATGGACTAATGAGGC  
TCTAACACTGCTCAGGAGACCCCTGCCCTCTAGTTGGTTCTGGGCTTTGATCTTCCAACCTGCCAGTCACAG  
AAGGAGGAATGACTCAAATGCCCCAAAACCAAGAACACATTGCAGAAGTAAGACAAAACATGTATATTTTTAAATGT  
TCTAACATAAGACCTGTTCTCTCTAGCCATTGATTTACCAGGCTTTCTGAAAGATCTAGTGGTTCACACAGAGAG

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**FIGURE 787B**

AGAGAGAGTACTGAAAAAGCAACTCCTCTTCTTAGTCTTAATAATTTACTAAAATGGTCAACTTTTCATTATCTT  
TATTATAATAAACCTGATGCTTTTTTTTAGAACTCCTTACTCTGATGTCTGTATATGTTGCACTGAAAAGGTTAA  
TATTTAATGTTTTAATTTATTTTGTGTGGTAAGTTAATTTTGATTTCTGTAATGTGTTAATGTGATTAGCAGTTA  
TTTTCCTTAATATCTGAATTATACTTAAAGAGTAGTGAGCAATATAAGACGCAATTGTGTTTTTCAGTAATGTGC  
ATTGTTATTGAGTTGTACTGTACCTTATTTGGAAGGATGAAGGAATGAATCTTTTTTTCCT

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**FIGURE 788A**

[illegible]

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**FIGURE 788B**

TCCCCTGACCTTCCCTCACCCCCAGAAACACTTGCTTACAGACCGAACTGGCATCTTACTCTTGGCACCTTGAC  
TTGCACCCTCTGAGGTTCCAACCTCAGTCATTCTTTGTCCAGCAGAGGAGAATCAGAAATGAGCCCTTCAGGATTA  
ATCCTCTTGCACCAGCTCTCAGAGAAATGCTGGGTATCCCTGTCCTTGTCCTATCTGTCCATCCTGGGGCCTGG  
TAATGGCCACAGTTATTGTTTTAAATGCCAACACTGTCTTCTCATGTTCTTCCGTGGGGCATTGATTAATGAGCA  
TTGTTGGCTCCTAAAAATTAGACAATCCATTCTCTTG



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**FIGURE 789**

GGCACGAGGCGGAGAACAGGAGCATGGAGGGCGGGCTGGGGCGTGCTGTGTGCTTGCTGACCGGGGCCTCCCGCG  
GCTTCGGCCGGACGCTGGCCCCGCTCCTGGCCTCGCTGCTGTCGCCCGGCTCCGTGCTTGTCCTTAGCGCCCGCA  
ACGACGAGGCACTGCGCCAGCTGGAGGCCGAGCTGGGCGCCGAGCGGTCTGGCCTGCGCGTGCTGGGGTGCCCG  
CCGACCTGGGCGCCGAGGCCGGCTTGACAGCAGCTGCTCGGCGCCCTGCGCGAGCTCCCCGGGCCAAGGGGCTGC  
AGCGACTGCTGCTTATCAACAACGCGGGCTCTCTGGGGATGTGTCCAAAGGCTTCGTGGACCTGAGTGACTCCA  
CTCAAGTGAACAACACTGAGGCACTGAACTTGACCTCCATGCTCTGCCTGACTTCCAGCGTCCTGAAGGCCTTCC  
CGGACAGTCCGTGGCCTCAACAGAACCGTGGTTAACATCTCGTCCCTCTGTGCCCTGCAACCTTTCAAAGGCTGGG  
CGCTGTAAGTGTGACAGGAAAGGCTGCTCGTGATATGCTGTTCCAGGTCCTGGCGCTGGAGGAACCTAATGTGAGGG  
TGCTGAACTATGCCCCAGGTCCTCTGGACACAGACATGCAGCAGTTGGCCCGGAGACCTCCGTGGACCCAGACA  
TGCGAAAAGGGCTGCAGGAGCTGAAGGCAAAGGGGAAGCTGGTGGATTGCAAGGTGTCAGCCAGAACTGCTGA  
GCTTACTGGAAAAGGACGAGTTCAAGTCTGGAGCCCCACGTGGACTTCTATGACAAAATAAGCCCATGTTTTGGCT  
TCCGTAACCTTTTTGCCCCCACTTTTAGACATACCCAGAGCCCTGTGGCTCCCCACACCCTGCCATAGGGGCAG  
TCCGTGCTTACACATAGAAGCATTATGCCTGCTGCCCTGCCCTCAGGCACAGCCAGCTGTGAGCTCCCAGGTCA  
TTGGCCTTACCAGTTGTCAGGAGTCTGTGCTGTGCACCCTGGGTATAAGGAGGCTTAGGAGAGAGGTTATGGGT  
ATTGGTGTCTCTATCCCCAGGAATAGAACTTAAGGGGTGGGAAGAACAGGAAAAGAGCTGGAACACAGAAGAGA  
GGAGGTGTGTCTCTTGCTCATAGCAAGCCTGTGGGTAGAGGAAAGAGTGATCTGGTGTGCAATAGGAGGACCCA  
TGTAAGATTCGCAGATGGCCTGGATGGGAGGAAGGGCAGACGGTACATGTCCCAGCCACATAGATGCCCTTGCT  
GAGGGTAGCAGGACCTTCTGTTGAACCTTGTGTCCTCACTCTGATGTCTCCTTCCTTCAGAATCTACCACCCCTC  
CCCCAGGCTGGGAGAAGGGGCTCCTGGGTGTCTGTATACAGCCAAAGGCAGATACAAATAAAATACAGATTGTC  
CTTTAAAAAAAAAAAAAAAAAAAA

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**FIGURE 790**

MEGGLGRAVCLLTGASRGFGRTLAPLLASLLSPGSVLVLSARNDALRQLEAELGAERSGLRVVRVPADLGAEAG  
LQQLLGALRELPRPKGLQRLLLINNAGSLGDVSKGFVDLSDSTQVNYYWALNLTSMCLTSSVLKAFDPSGLNR  
TVVNISSLALQPFKGWALYCAGKAARDMLFQVLALEEPNVRVLNYAPGPLDTDMQQLARETSVDPDMRKGLQEL  
KAKGKLVDCVSAQKLLSLEKDEFKSGAHVDFYDK

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**FIGURE 791**

GGAGCATGGAGGGCGGGCTGGGGCGTGCTGTGTGCTTGCTGACCGGGGCTCCCGCGGCTTCGGCCGGACGCTGG  
CCCCGCTCCTGGCCTCGCTGCTGTGCGCCGGCTCCGTGCTTGCTCCTTAGCGCCCGCAACGACGAGGCACTGCGCC  
AGCTGGAGGCCGAGCTGGGCGCCGAGCGGTCTGGCCTGCGCGTGGTGCGGGTGCCCGCCGACCTGGGCGCCGAGG  
CCGGCTTGCAGCAGCTGCTCGGCGCCCTGCGCGAGCTCCCCCGGCCCAAGGGGCTGCAGCGACTGCTGCTTATCA  
ACAACGCGGGTAAGACCCCGGGGCTGGAGCGGACTCCCCATGTGAGCGCCCACTTCCTCCACCGCTGGGGAATTT  
AAGGGCTACTCCTAGGGGTCAGATAGGACGCCTAGAAATCTAAAGCCCTAGTTGTTCCAGCTTGAGTAGCAAGTG  
GAGGCGAGGTGTACAGGAAGACTCGGTGCCGTGCGGACAACAGTCTGCCCCCACTTCCTGGAAAATTGGCCAGCC  
GGGTTTTCCAAAGCGCCTGTAGAACTTTCCCGAGCCCTTGCTCTGCGCCCTCTGGCGGAGGCCTGAGTCAGGGC  
TTGGAGTCTCCAAACAAGTAAACTCTCTGCTTCTCCAAAGGACCGCTAGAGCTTTTCCTTCAGCCCCACGGCAAGG  
GCTCTCTTGGGGATGTGTCCAAGGCTTCGTGGACCTGAGTGACTCCACTCAAGTGAACAACACTACTGGGCACTGA  
ACTTGACCTCCATG

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**FIGURE 792**

GTTCCAAGGTTTTCGGGCCCGGTCTCGGAGAAGAGGGGAGAGTGGAGGGCCGCTGAATAAGCTTCCAAAATGATGC  
CCACACCAGTTATCCTATTGAAAGAGGGGACTGATAGCTCCCAAGGCATCCCCAGCTTGTGAGTAACATCAGTG  
CCTGCCAGGTGATTGCTGAGGCTGTAAGAATAACCTTGGGTCCCGTGGCATGGACAAGCTTATTGTAGATGGCA  
GAGGCAAAGCAACAATTTCTAATGATGGGGCCACAATTCTGAAACTTCTTGATGTTGTCCATCCTGCAGCAAAGA  
CTTTGGTAGACATTGCCAAATCCCAAGATGCTGAGGTGGGTGATGGCACCACCTCAGTGACCTTGCTGGCTGCAG  
AGTTTCTGAAGCAGGTGAAACCTATGTGGAGGAAGGTTTACACCCCAAGATCATCATTGAGCTTTCCGCACAG  
CCACCCAGCTGGCAGTTAACAAGATCAAAGAGATTGCTGTGACCGTGAAGAAGGCAGATAAAGTGGAGCAGAGGA  
AGCTGCTGGAAGTGTGCCATGACCGCTCTGAGCTCCAAGCTGATCTCCAGCAGAAAGCTTTCTTTGCTAAGA  
TGGTGGTGGATGCAGTGATGATGCTCGATGATTTGCTGCAGCTTAAATGATTGGAATCAAGAAGGTACAGGGTG  
GAGCCCTCGAGGATTCTCAGCTGGTAGCTGGTGTGCAATTCAAGAAGACTTTCTCTTACGCTGGGTTTGAAATGC  
AACCCAAAAGTACCACAATCCCAAGATTGCCCTTTTGAATGTCGAGCTCGAGTTGAAAGCTGAGAAAGACAATG  
CTGAGATAAGAGTCCACACAGTTGAGGATTATCAGGCAATTGTTGATGCTGAGTGGAACATTCTCTATGACAAGT  
TAGAGAAGATCCATCATTCTGGAGCCAAAGTTGTCTTGTCCAAACTCCCCATTGGGGATGTGGCCACCCAGTACT  
TTGCTGACAGGGACATGTTCTGTGCTGGCCGAGTACCTGAGGAGGATCTGAAGAGGACAATGATGGCCTGTGGAG  
GCTCAATCCAGACCAGTGTGAATGCTCTGTGTCAGCAGATGTGCTGGGTGATGCCAGGTGTTTGAAGAGACCCAGA  
TTGGAGGCGAGAGGTACAATTTTTTACTGGCTGCCCCAAGGCCAAGACATGCACCTTCATTCTCCGTGGCGGCG  
CCGAGCAGTTTATGGAGGAGACAGAGCGGTCCCTGCATGATGCCATCATGATCGTCAGGAGGGCCATCAAGAATG  
ATTGAGTGGTGGCTGGTGGCGGGGCCATTGAGATGGAACCTCTCCAAGTACCTGCGGGATTACTCAAGGACTATTC  
CAGGAAAACAGCAGCTGTTGATTGGGGCTTATGCCAAGGCCTTGGAGATTATCCACGCCAGCTGTGTGACAATG  
CTGGCTTTGATGCCACAAACATTCTCAACAAGCTGCGGGCTCGGCATGCCAGGGGGGTACATGGTATGGAGTAG  
ACATCAACAACGAGGACATTGCTGACAACCTTTGAAGCTTTCTGTGTTGGGAGCCAGCTATGGTGCAGTCAATGCGC  
TGACAGCAGCCTCTGAGGCTGCGTGCCTGATCGTGTCTGTAGATGAAACCATCAAGAACCCCGCTCGACTGTGG  
ATGCTCCACAGCAGCAGGCCCGGGCCGTTGGTCTGTGGCCGCCCCACTGAGAGGCACCCACCCATCACATGGCT  
GGCTGGCTGCTGGGTGCACTTACCCTCCTTGGCTTGGTTACTTCATTTTAAAGGAAGGGGTAGTAATTGGCCCA  
CTCTCTTCTTACTGGAGGCTATTTAAATAAAATGTAAGACTTCAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 793**

MMPTPVILLKEGTDSSQGIPQLVSNISACQVIAEAVRTTLGPRGMDKLIVDGRGKATISNDGATILKLLDVVHPA  
AKTLVDIAKSQDAEVGDGTTSTLLAAEFLKQVKPYVEEGLHPQIIIRAFRTATQLAVNKIKEIAVTVKKADKVE  
QRKLLKCAMTALSSKLISQQKAFFAKMVVDVAVMMLDDLLQLKMIGIKKVQGGALEDSQLVAGVAFKKTFSYAGF  
EMQPKKYHNPKIALLNVELELKAEKDNAEIRVHTVEDYQAIVDAEWNILYDKLEKIHHSKAKVVLKLPIGDVAT  
QYFADRMFCAGRVPEEDLKRTMMACGGSIQTSVNALSADVLGRCQVFEETQIGGERYNFFTGC PKAKTCTFILR  
GGAEQFMEETERSLHDAIMIVRRAIKNDSVVAGGGAIEMELSKYLRDYSRTIPGKQQLLIGAYAKALEIIPRQLC  
DNAGFDATNINLKLRRARHAQGGTWYGVDINNEDIADNFEAFVWEPAMVRINALTAASEAACLIVSVDETIKNPRS  
TVDAPTAAGRGRGRGRPH

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**FIGURE 794**

ATATAACCGCGTGGCCCGCGCGCGCTTCCCTCCCGGCGCAGTCACCGGCGCGGTCTATGGCTGCGACTTCTCT  
AATGTCTGCTTTGGCTGCCCCGGCTGCTGCAGCCCGCGCACAGCTGCTCCCTTCGCCTTCGCCCTTTCCACCTCGC  
GGCAGTTTCGAAATGAAGCTGTTGTCAATTTCTGGAAGGAACTGGCCCAGCAGATCAAGCAGGAAGTGC GGCAGGA  
GGTAGAAGAGTGGGTGGCCTCAGGCAACAAACGGGCCACACCTGAGTGTGATCCTGGTTGGCGAGAATCCTGCAAG  
TCACTCCTATGTCTCAACAAACAGGGCAGCTGCAGTTGTGGGAATCAACAGTGAGACAATTATGAAACCAGC  
TTCAATTTTCAGAGGAAGAATTGTTGAATTTAATCAATAAACTGAATAATGATGATAATGTAGATGGCCTCCTTGT  
TCAGTTGCCTCTTCCAGAGCATATTGATGAGAGAAGGATCTGCAATGCTGTTTCTCCAGACAAGGATGTTGATGG  
CTTTCATGTAATTAATGTAGGACGAATGTGTTTGGATCAGTATTCCATGTTACCGGCTACTCCATGGGGTGTGTG  
GGAAATAATCAAGCGAAGTGGCATTCCAACCCTAGGGAAGAATGTGGTTGTGGCTGGAAGGTCAAAAAACGTTGG  
AATGCCCATTGCAATGTTACTGCACACAGATGGGGCCGATGAACGTCCCGGAGGTGATGCCACTGTTACAATATC  
TCATCGATAATACTCCCAAAGAGCAGTTGAAGAAACATACAATTCTTGCAGATATTGTAATATCTGCTGCAGGTAT  
TCCAAATCTGATCACAGCAGATATGATCAAGGAAGGAGCAGCAGTCATTGATGTGGGAATAAATAGAGTTCCGGA  
TCCTGTAAC TGCCAAACCAAGTTGGTTGGAGATGTGGATTTTGAAGGAGTCAGACAAAAAGCTGGGTATATCAC  
TCAGTTTCTGGAGGTGTTGGCCCCATGACAGTGGCAATGCTAATGAAGAATACCATTATTGCTGCAAAAAAGGT  
GCTGAGGCTTGAAGAGCGAGAAGTGTGAAGTCTAAAGAGCTTGGGGTAGCCACTAATTAACTACTGTGCTCTCT  
GTGTCACAAACAGCACTCCAGGCCAGCTCAAGAAGCAAAGCAGGCCAATAGAAATGCAATATTTTAAATTTATTC  
TACTGAAATGGTTTAAAAATGATGCCTTGATTTATTGAAAGCTTAAATGGGTGGGTGTTTCTGCACATACCTCTG  
CAGTACCTCACCAGGGAGCATTCCAGTATCATGCAGGGTCTGTGATCTAGCCAGGAGCAGCCATTAACCTAGTG  
ATTAATATGGGAGACATTACCATATGGAGGATGGATGCTTCACTTTGTCAAGCACCTCAGTTACACATTTCGCCTT  
TTCTAGGATTGCATTTCCCAAGTGCTATTGCAATAACAGTTGATACTCATTTTAGGTACCAGACCTTTTGAGTTC  
AACTGATCAAACCAAAGGAAAAGTGTGCTAGAGAAAATTGGGGAAAAGGTGAAAAAGAAAAATGGTAGTAATT  
GAGCAGAAAAAATTAATTTATATATGATTGATTGGCAACCAGATTTATCTAAGTAGAACTGAATTGGCTAGGA  
AAAAAGAAAACTGCATGTTAATCATTTTCCTAAGCTGTCCTTTTGAGGCTTAGTCAGTTTATTGGGAAAATGTT  
TAGGATTATTCTTGCTATTAGTACTCATTTTATGTATGTTACCCTTCAGTAAGTTCTCCCCATTTTAGTTTTCT  
AGGACTGAAAGGATTCTTTTCTACATTATACATGTGTGTTGTCATATTGGCTTTTGCTATATACTTTAACTTCA  
TTGTTAAATTTTGTATTGTATAGTTTCTTTGGTGTATCTTAAACCTATTTTGAAAAACAACTTGGCTTGAT  
AATCATTTGGGCAGCTTGGGTAAGTACGCAACTTACTTTTCCACCAAGAACTGTCAGCAGCTGCCTGCTTTTCT  
GTGATGTATGTATCCTGTTGACTTTTCCAGAAATTTTTAAGAGTTTGAGTTACTATTGAATTTAATCAGACTTT  
CTGATTAAAGGGTTTTCTTTCTTTTTTAATAAAACACATCTGTCTGGTATGGTA

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**FIGURE 795**

MSALAARLLQPAHSCSLRLRPFHLAAVRNEAVVISGRKLAQQIKQEVQRQVEEWVASGNKRPHLSVILVGENPAS  
HSYVLNKTRAAAVVGINSETIMKPASISEEELLNLINKLNDDNDVGLLVQLPLPEHIDERRICNAVSPDKDVDG  
FHVINVGRMCLDQYSMLPATPWGVWEIIKRTGIPTLGKNVVVAGRSKNVGMPIAMLLHTDGAHERPGGDATVTIS  
HRYTPKEQLKKHTILADIVISAAGIPNLITADMIKEGAAVIDVGINRVHDPVTAKPKLVGDVDFEGVRQKAGYIT  
PVPGGVGPMTVAMLMKNTIIAAKKVLRLEEREVLKSKELGVATN

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**FIGURE 796**

GGAAAAATTGTACAGCAGCCAGAGGGGTTTAAACAGGAGTGCAGAGGGATAAGGGCAGCTTCTGCCCTCTGCCCCA  
AGAGCTGGCCACCTCTTTAAAGACTGAGGGAACAGTGGGAGGAGGAACCTGTGGGACAGTGTGGTACCTATCTGTCT  
CCCCCTCTGGAGGGGTTGACAAGGGAAAGGGCACCGGGGGGCACAGAGATGCAGGACAGATTGCACATCCTGGAG  
GACCTGAATATGCTCTACATTCCGGCAGATGGCACTCAGCCTGGAGGACACGGAGTTGCAGAGGAAGCTAGACCAT  
GAGATCCGATGAGGGAAGGGGCTGTAAAGCTGCTGGCAGCCTGCTCCCAGCGAGAGCAGGCTCTGGAGGCCACC  
AAGAGCCTGCTAGTGTGCAACAGCCGCAATCCTCAGCTACATGGGCGAGCTGCAGCGCGCAAGGAGGCGCAGGTG  
CTGGGGAAGACAAGCCGGCGGCCCTTCTGACAGTGGCCCGCCGCTGAGCGCTCCCCCTGCCGCGGCCGGGTCTGC  
ATCTCTGACCTCCGGATTCCACTCATGTGGAAGGACACAGAATATTTCAAGAACAAGGTGACTTGACCCGCTGG  
GCTGTGTTCTGTCTGCTGCAGCTGGGGGAACACATCCAGGACACAGAGATGATCCTAGTGGACAGGACCCTCACA  
GACATCTCCTTTAGAGCAATGTGCTCTTCGCTGAGGCGGGGCCAGACTTTGAAGTGCAGTTAGAGCTGTATGGG  
GCCTGTGTGGAAGAAGAGGGGGCCCTGACTGGCGGCCCAAGAGGCTTGCCACCAAACCTCAGCAGCTCCCTGGGC  
CGCTCCTCAGGGAGGCGTGTCCGGGCATCGCTGGCAGTGTGGGGTTTCAGGGAGCAGTCCCATCTTGCTCCCC  
ACCCAGTTGTTGGTGGTCCCTCGTTACCACCTCTTGGCTCACACCACACTCACCTGGCAGCAGTGCAAGATGGA  
TTCCGCACACATGACCTCACCTTGCCAGTCATGAGGAGAACCCTGCCTGGCTGCCCTTTATGGTAGCGTGTGT  
TGCCGTCTGGCAGCTCAGCCTCTCTGCATGACTCAGCCACTGCAAGTGGTACCCTCAGGGTGCAGCAAGCTGGG  
GAGATGCAGAACTGGGCACAAGTGCATGGAGTTCTGAAAGGCACAAACCTCTTCTGTTACCGGCAACCTGAGGAT  
GCAGACACTGGGGAAGAGCCGCTGCTTACTATTGCTGTCAACAAGGAGACTCGAGTCCGGGCAGGGGAGCTGGAC  
CAGGCTCTAGGACGGCCCTTCACCCTAAGCATCAGTAACCAGTATGGGGATGATGAGGTGACACACACCCTTCAG  
ACAGAAAGTCGGGAAGCACTGCAGAGCTGGATGGAGGCTCTGTGGCAGCTTTTCTTTGACATGAGCCAATGGAAG  
CAGTGCTGTGATGAAATCATGAAAATTGAACTCCTGCTCCCCGGAAACCACCCCAAGCACTGGCAAAGCAGGGG  
TCCTTGATACATGAGATGGCTATTGAGCCGCTGGATGACATCGCAGCGGTGACAGACATCCTGACCCAGCGGGAG  
GGCGCAAGGCTGGAGACACCCCAACCTGGCTGGCAATGTTTACAGACCAGCCTGCCCTGCCTAACCCCTGCTCG  
CCTGCCTCAGTGGCCCCAGCCCCAGACTGGACCCACCCCTGCCCTGGGGGAGACCCCGAACCTTTTCCCTGGAT  
GCTGTCCCCCAGACCACTCCCCTAGGGCTCGCTCGGTTGCCCCCTCCACCTCAGCGATCCCCACGGACCAGA  
GGCCTCTGCAGCAAAGGCCAACCTCGCACTTGGCTCCAGTCACCAGTGTGAGAGAGAAAGGTGCTGGCATAGGAT  
CTGCCCAGAAGAGAAAATGACCCATGCGCAGTTGGGCTCTGGATACGGCGCTGTCTATAGCAAGTTGGCCAGTCT  
GGCCTCCTGTTTCTCTGCTGGACCTGGGGTAGGCTGCAGGGGTGGGCAGAAGCCCCTCTTAAATTGTGGTTGCCA  
TGGTACCGAGGGACTCATTCTGGGGCTCGCTGGGACCTCCCTAAACCCTTCTGGAAGAAAACCTGGAACCACT  
CTGCCCTACCTCCCTGCACTAACCAGCTTTGAGGATGGCACTGAAGAACCCTTGGAGCAAACATACCTCCCTGT  
GACTCCACATCAACCATTAAAGTTATTTAACAGCAAAAAAAAAAAAAA



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**FIGURE 797**

MQDRLHILEDLNMLYIROMALSLEDTELQRKLDHEIRMREGACKLLAACSQREQALEATKSLVCNSRILSYMGE  
LQRRKEAQVLGKTSRRPSDGGPPAERSPCRGRVCISDLRIPLMWKDTEYFKNKGD LHRWAVFLLLQLGEHIQDTE  
MILVDRTLTDISFQSNVLF AEAGPDFELRLELYGACVEEEGALTGGPKRLATKLSSSLGRSSGRRVRASLDSAGG  
SGSSPILLPTPVVGGPRYHLLAHTTLTAAVQDGFRTHTLTASHEENPAWLPLYGSVCCRLAAQPLCMTQPTAS  
GTLRVQQAGEMQNWAQVHGV LKGTNLFCYRQPEDADTGEEPLLTIAVNKETRV RAGELDQALGRPFTLSISNQYG  
DDEVTHLTQTESREALQSWMEALWQLFFDMSQWKQCCDEIMKIETPAPRKPPQALAKQGS LYHEMAIEPLDDIAA  
VTDILTQREGARLET PPPWLAMFTDQPALPNPCSPASVAPAPDWITHPLPWGRPRTFSLDAVPPDHSFRARSVAPL  
PPQRSPTRGLCSKGQPRTWLQSPV

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**FIGURE 798**

GACTACGTGGGTCTGGAGCTGACTGCCGTCCTGACACGTCCTAGAGCTGCAAGTCCTGCCAGAGAGCCACCATGA  
CCTCTCAGCCTCTCAGGCTAGCAGAAGAGTATGGCCCAAGTCCTGGGGAGTCTGAACCTGGCTGTGAACCCCTTTG  
ATGGGCTTCCCTTCTCTTCCCGCTACTATGAGCTGCTGAAGCAGCGCCAAGCCTTGCCCATCTGGGCTGCTCGCT  
TTACCTTCTTGGAGCAGTTGGAGAGTAACCCCACTGGAGTGGTGCTGGTGTCTGGGGAGCCTGGTTCTGGCAAGA  
GCACCCAGATCCCTCAGTGGTGTGCAGAGTTTGCCTGGCCAGAGGGTTCCAGAAAGGACAGGTTACTGTTACTC  
AGCCCTACCCTCTTGACGCCCGGGAGCCTGGCTCTGCGGGTTGCTGATGAGATGGACCTGACCCTGGGTCATGAG  
GTTGGATCCAGCATCCCCAGGAGGACTGCACGGGGCCCAACACCTGCTCAGGTTCTGCTGGGACAGGCTGCTT  
CTGCAGGAGGTGGCCTCGACCCGAGGCACTGGAGCCTGGGGCGTGTGGTACTAGATGAGGCTCAGGAGCGGTGCG  
GTGGCATCAGATTCACTCCAGGGGCTACTGCAAGATGCCAGGCTGGAAAACTTCCGGGGGACCTCAGAGTGGTT  
GTGGTTACTGACCCAGCCCTTGAACTAAGCTCCGAGCTTCTGGGGCAATCCTCCTATTGTGCATATACCCAGA  
GAGCCTGGTGAGAGACCTTCCCCATCTACTGGGACACCATCCACCTGATCGGGTGGAAGCTGCCTGCCAAGCA  
GTGCTTGAATTGTGTCGGAAGGAGCTTCCAGGAGATGTGCTAGTGTCTGCTGCCAGTGAGGAGGAAATTTCCCTG  
TGCTGTGAATCCTTGTCAGGGAGGTAGAGTCCTTGCTTCTCCAAGGGCTTCCACCAGAGTACTGCCCTTTCAC  
CCAGACTGTGGACGAGCCGTTCCAGCTGTGTATGAGGACATGGATGCCGAAAGGTTGTGGTCACTCACTGGCTG  
GCTGACTTCTCCTTCTCCCTCCCTTCCATCCAACATGTGCTGACTCAGGACTGGAGCTCCGAAGTGTTTACAAAT  
CCTAGGATCCGAGCAGAATTCCAAGTGTGAGGGCAATCAGCAAGTGTGAGGCAGAGGCAAGACGATTGCCAGCA  
AGAGGGTTCCACAGGATCCTGCCTCTGCCTGTATCCTAAGTCCTTCTTAGAACTAGAAGCTCCACCATTGCCA  
CAACCCAGGGTGTGTGAGGAGAATCTGAGCTCCCTGGTGTACTACTAAAAAGGAGACAGATTGCAGAGCCAGGG  
GAGTGTCACTTCTGGACAGCCTGCTCCAGAAGCACTGATGCAAGCCCTGGAAGATTTAGACTATCTGGCAGCC  
CTGGATGATGATGGGGACCTGTGAGATCTGGGTGTCATACTATCAGAATTCCTCTGGCCCTGAGCTGGCCAAA  
GCCCTGCTGGCCTCATGCGAGTTTGAAGTGTGTGGACGAGATGCTCACCCTGGCTGCCATGCTCACAGCTGCCCT  
GGGTTTACCCGTCCTCCACTCAGTGCAGAAGAAGCTGCCCTGCGTCGGGCCCTGGAACACACGGATGGTGACCAC  
AGTTCTCTGATCCAGGTGTATGAAGCCTTTATACAAAGTGGAGCAGATGAGGCTTGGTGCCAGGCTCGAGGTCTG  
AATTGGGCAGCATTGTGCCAAGCCCATAAACTTCGGGGAGAATCCTAGAACTCATGCAACGAATTGAACCTCCC  
TTGTCCCTACCAGCCTTTGGCTCTGAGCAGAATCGCAGAGACCTTCAGAAAGCACTGGTGTGAGAATACTTTCTC  
AAGGTGGCCAGAGACACAGACGGGACTGGAAATTACCTTCTCCTAACCATAAGCATGTGGCCAGCTCTCCTCA  
TACTGCTGCTACCGAAGCCGCAGAGCTCCTGCCAGACCCCCACCATGGGTGCTCTACCACAATTTACCATATCC  
AAAGACAACCTGCCTCTCCATTGTTTCTGAGATTCAACCACAGATGCTGGTGAATTGGCCCTCCATACTTCTG  
AGTAACTTGCCCTCCAGTGAGAGCAGAGACCTTCTGAACCAGCTAAGGGAAGGAATGGCAGATTCTACAGCAGGG  
AGCAAATCATCTCAGCCCAGGAGTTCAGAGATCCCTGTGTCCTGCAGTGGACCTGCCTGCCTATGGAATGGAGCT  
GGGTTTATCTCATCACATTAGATTATCCCTCAGGGTGACACCAAGCACCCAGACAGATTTAGAAGCCCAAAGTT  
TAGGGTCAAATGTAAACCTGGAACCTGAGTCCCAAGAAATGGTAGACTGGGAATGGAAGAATGGGGTAAACCA  
CAGTCTACATAGGGAAGGACTCTTTCCTTAGCCTTCTCTATTGATTGGAGAGGGACTGACATGCTCCTCATTCT  
CTTAACCTTGCCAAACCCATTCTTGACTCCCTTGATGATCTATAAAAGATTTTCTATGATGCCAAAAA  
AAAAA

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**FIGURE 799**

MDLTILGHEVGSSIPQEDCTGPNITLLRFCWDRLLLQEVASTRGTGAWGVVLVDEAQERSVASDSLQGLLDARLEK  
LPGDLRVVVVTDPALEPKLRAFWGNPPIVHIPREPGERPSPIYWDTIPDRVEAACQAVLELCRKELPGDVLVFL  
PSEEEISLCCESLSREVESLLLQGLPPRVLPPLHPDCGRAVQAVYEDMDARKVVVTHWLADFSFSLPSIQHVIDSG  
LELRSVYNPRIRAEFQVLRPISKQAEARRLRARGFPPGSCLCLYPKSFLELEAPPLPQPRVCEENLSSIVLLLK  
RRQIAEPGECHFLDQPAPEALMQALEDLDYLAALDDGDLSDLGVILSEFPLAPELAKALLASCEFCVDEMLTL  
AAMLTAAPGFTRPPLSAEEAALRRALEHTDGDHSSLIQVYEAFIQSGADEAWCQARGLNWAALCQAHKLRGELLE  
LMQRIELPLSLPAFGSEQNRRDLQKALVSEYFLKVARDTDGTGNYLLLTHKHVAQLSSYCCYRSRRAPARPPFWV  
LYHNFTISKDNCLSIIVSEIQPQMLVELAPPYFLSNLPPSESRLNQLREGMADSTAGSKSSSAQEFRDPCVLQ

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**FIGURE 800**

CGAAAAATGGCGGCGGCGGCGACGGCCGGGCGCTCCTGAAGCAGCAGTTATGGAGCTTCCCTCAGGGCCGGGGCCG  
GAGCGGCTCTTTGACTCGCACCGGCTTCCGGGTGACTGCTTCCTACTGCTCGTGCTGCTGCTCTACGCGCCAGTC  
GGGTTCTGCCTCCTCGTCTGCGCCTCTTTCTCGGGATCCACGTCTTCCTGGTCAGCTGCGCGCTGCCAGACAGC  
GTCCTTCGCAGATTCTAGTAGCGGACCATGTGTGCGGTGCTAGGGCTCGTGGCCCGGCAGGAGGACTCCGGACTC  
CGGGATCAGAGTGTGAGGGTCCCTCATTTCACACCATGTGACACCTTTTCGACCACAACATAGTCAATTTGCTTACC  
ACCTGTAGCACCCCTCTACTCAATAGTCCCCCAGCTTTGTGTGCTGGTCTCGGGGCTTCATGGAGATGAATGGG  
CGGGGGGAGTTGGTGGAGTCACTCAAGAGATTCTGTGCTTCCACGAGGCTTCCCCCACTCCTCTGCTGCTATTCT  
CCTGAGGAAGAGGCCACCAATGGCCGGGAGGGGCTCCTGCGCTTCAGTTCCCTGGCCATTTTCTATCCAAGATGTG  
GTACAACCTCTTACCCTGCAAGTTCAGAGACCCCTGGTCTCTGTGACGGTGTGAGATGCCTCCTGGGTCTCAGAA  
CTGCTGTGGTCACTTTTTCTCCCTTTTACGGTGTATCAAGTAAGGTGGCTTCGTCTGTTCATCGCCAACTAGGG  
GAAGCGAATGAGGAGTTTGCACTCCGTGTACAACAGCTGGTGGCCAAGGAATTGGGCCAGACAGGGACACGGCTC  
ACTCCAGCTGACAAAGCAGAGCACATGAAGCGACAAAGACACCCAGATTGCGCCCCCAGTCAGCCCAGTCTTCT  
TTCCCTCCCTCCCTGGTCTTCTCCTGATGTGCAACTGGCAACTCTGGCTCAGAGAGTCAAGGAAGTTTGGCC  
CATGTGCCATTGGGTGTCTATCCAGAGAGACCTGGCCAAGACTGGCTGTGTAGACTTGACTATCACTAATCTGCTT  
GAGGGGGCCGTAGCTTTTCATGCCTGAAGACATACCAAGGGAAGTCACTCCCTACCCACAGCCTCTGCCTCCAAG  
TTTCCCAGCTCTGGCCCGGTGACCCCTCAGCCAACAGCCCTAACATTTGCCAAGTCTTCCTGGGCCCGGCAGGAG  
AGCCTGCAGGAGCGCAAGCAAGCACTATATGAATACGCAAGAAGGAGATTACAGAGAGACGAGCCCAGGAGGCT  
GACTGAGCTCAAAGGAACAGGATGGCACCCAGAGCCGAGGAGACTGGGGGCAGCCCTACCCAACTCACA  
ACAGGCTGGATGGGTGGTGGTAAAAAGGAAGGATGAGGCTCCCCCAATGTCACATTAAATTCATGGTTTTCAT  
TC

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**FIGURE 801**

CGTGGATCCCGAGAAAGAGGCGCAGGACGAGGAGGCAGAACCCGACTGGCGCGTAGAGCAGCAGCAGCAGCAGTA  
GGAAGCAGTCACCCGGAAGCCTGGGGGCGAGAGGCGAAGTGGTCAGGCGCCGAAGGCCGAGAGCAGCAGCGGGGATC  
GGTCTCTTCCCGCCGGGTCTCTTACCGGTGCGAGTCAAAGAGCCGCTCCGGCCCCGGCCCTGAGGGAAGCTCCAT  
AACTGCTGCTTCAGGAGCGCCCGCCGTCGCCGCCGCCGCAATTTTCGCCCGCCGGCCGAGGGGCTCTTGGAAG  
GCGGAGTCTTTGGGCATCCGCCCGGGGTGAGGGGACCCGAAGTCTGAGGCGCGCCGAAGGGCTAGCGGTCCCA  
GCATACCCCGCGGCCCTTGGGCCGTCTCACAACCTCGCGTCCGGCGGAGACCACAATTCCTGGCATTCGTGGGGC  
AGGGAGGAGTCGGCCTCCCGGAATCCTGGTCCCGGCGTGCACTTCTGAAGGACTTCAGGTACCGCGGTGCCCCGC  
GTCCTACTGTCCGCCTGCTCGCGTCTGGGTGCCGCTCTGAGTAGGGCGGGCGAGGAGGCAGCCAAGGCGGAGC  
TGATGGCTGCGCCGAGGGCGGGGCGGGGTGCAAGGCTGGAGCCTTCGGGCATGGCGGGCTTTGGGGGGCATTTCGCT  
GGGGGAGGAGACCCCGTTTGACCCCTGACCTCCGGGCCCTGCTGACGTCAGGAACCTCTGACCCCGGGCCCGAG  
TGACTTATGGGACCCCCAGTCTCTGGGCCCGGTTGTCTGTTGGGGTCACTGAACCCGAGCATGCCTGACGTCCTG  
GGACCCCGGGTCCCCGGGCACAACCTGACTGCGGTGACCCAGATACCAGGACCCGGGAGGCCTCAGAGAACCTCTG  
GAACCCGTTTCGCGCGCGTGCGTGGCGGTGGCGCTGGGCGCTGGGGGGCAGTGCTGTGTTGTTGTGGGGCGGGG  
GTCGGGGTCTCCGGCCGTCCTCGCCGCCGTCCTAGCCCGCCGCCCGCTTCTCCCCGAGTCAGTACAACCTTCA  
TCGAGATGTGGTGGAGAAGACAGCACCTGCCGTGGTCTATATCGAGATCCTGGACCGGCACCCCTTCTTGGGCC  
GCGAGGTCCTATCTCGAACGGCTCAGGATTCGTGGTGGCTGCCGATGGGCTCATTGTACCAACGCCCATGTG  
TGGCTGATCGGCGCAGAGTCCGTGTGAGACTGCTAAGCGGCGACACGTATGAGGCCGTGGTCACAGCTGTGGATC  
CCGTGGCAGACATCGCAACGCTGAGGATTCAGACTAAGGAGCCTCTCCCCACGCTGCCTCTGGGACGCTCAGCTG  
ATGTCCGGCAAGGGGAGTTTGTGTTGCCATGGGAAGTCCCTTTGCACTGCAGAACACGATCACATCCGGCATTG  
TTAGCTCTGCTCAGCGTCCAGCCAGAGACCTGGGACTCCCCAAACCAATGTGGAATACATTCAAACCTGATGCAG  
CTATTGATTTTGAAACTCTGGAGGTCCCCGTGTTAACCTGGATGGGGAGGTGATTGGAGTGAACACCATGAAGG  
TCACAGCTGGAATCTCCTTTGCCATCCCTTCTGATCGTCTTCGAGAGTTTCTGCATCGTGGGGAAAAGAAGATT  
CCTCCTCCGGAATCAGTGGGTCCCAGCGGCGCTACATTGGGGTGATGATGCTGACCCTGAGTCCCAGCATCCTTG  
CTGAACTACAGCTTCGAGAACCAAGCTTTCCCGATGTTACAGATGGTGTACTCATCCATAAAGTCATCCTGGGCT  
CCCCTGACACCGGGCTGGTCTGCGGCCTGGTGATGTGATTTTGGCCATTGGGGAGCAGATGGTACAAAATGCTG  
AAGATGTTTATGAAGCTGTTTCGAACCAATCCAGTTGGCAGTGCAGATCCGGCGGGGACGAGAAACACTGACCT  
TATATGTGACCCCTGAGGTACAGAAATGAATAGATCACCAAGAGTATGAGGCTCCTGCTCTGATTTCTCCTTGC  
CTTTCTGGCTGAGGTTCTGAGGGCACCGAGACAGAGGTTAAATGAACCAAGTGGGGGAGGTCCCTCCAACCACC  
AGCACTGACTCCTGGGCTCTGAAGAATCACAGAAACACTTTTTATATAAAATAAAATTATACCTAGCAACATATT  
ATAGTAAAAAATGAGGTGGGAGGGCTGGATCTTTTCCCCCACCAAAAGGCTAGAGGTAAAGCTGTATCCCCCTAA  
ACTTAGGGGAGATACTGGAGCTGACCATCCTGACCTCCTATTAAAGAAAATGAGCTGCTGAAAAAAAAAAAAA  
A

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**FIGURE 802**

MAAPRAGRAGWSLRAWRALGGIRWGRRPRLTPDLRALLTSGTSDPRARVTYGTPSLWARLSVGVTEPRACLTSG  
TPGPRAQLTAVTPDTRTREASENSGTRSRAWLAVALGAGGAVLLLLWGGGRGPPAVLAAVSPPPASPRSQYNFI  
ADVVEKTAPAVVYIEILDRHPFLGREVPISNGSGFVVAADGLIVTNAHVVADRRRVVRLLSGDTYEAVVTAVDP  
VADIATLRIQTKEPLPTLPLGRSADVRQGEFVVMGSPFALQNTITSGIVSSAQRPARDLGLPQTNVEYIQTDA  
IDFGNSGGPLVNLDGEVIGVNTMKVTAGISFAIPSDRLREFLHRGEKKNSSSGISGSQRRYIGVMMLTTLSPSILA  
ELQLREPSFPDVQHGVLIHKVILGSPAHRAGLRPGDVILAIGEQMVQNAEDVYEAVRTQSQLAVQIRRGRETLL  
YVTPEVTE

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**FIGURE 803**

GCAACGCGAGTGGGAGCACCAGGATCTCGGGCTCGGAACGAGACTGCACGGATTGTTTTAAGAAAATGGCAGACA  
AACCAGACATGGGGGAAATCGCCAGCTTCGATAAGGCCAAGCTGAAGAAAACGGAGACGCAGGAGAAGAACACCC  
TGCCGACCAAAGAGACCATTGAGCAGGAGAAGCGGAGTGAAATTTCCCTAAGATCCTGGAGGATTCCTACCCCG  
TCCTCTTCGAGACCCAGTCGTGATGTGGAGGAAGAGCCACCTGCAAGATGGACACGAGCCACAAGCTGCACTGT  
GAACCTGGGCACTCCGCGCCGATGCCACCGGCCGTGTTGGTCTCTGAAGGGACCCCCCAATCGGACTGCCAAA  
TTCTCCGGTTTGCCCCGGGATATTATAGAAAATTATTTGTATGAATAATGAAAATAAAACACACCTCGTGGCATG  
GCA

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**FIGURE 804**

MADKPDMGGEIASFDKAKLKKTETQEKNILPTKETIEQEKRSIS



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**FIGURE 805**

CACCAAATGGCGGATGACGCCGGTGCAGCGGGGGGGCCAGAGCCCTGGTGGCCATGGGATAGGGAACCGCGGTG  
GCTTCCACGGAGGTTTCGGCAGTGGCATCCGGGGCCGGGGTCGCGGGAGTGGACGGGGCCGTGCCGAGGCCGCGG  
AGCTCGCGGAGGCAAGGCCGAGGATAAGGAGTGGATGCCTGTCACCAAGCTGGGCGCTTGGTCAAGGACATGAA  
GATCAAGTCCCTGGAGGAGATCTATCTCTTCTCCCTGCCCATTAAAGGAATCTGAGATCATTGATTTCTTCTGGG  
GGACTCTCTCAAGGATGAGGTTTTGAAGATTATGCCGGTGCAGAAGCAGACCCGTGCCGGCCAGCGCACCAGGTT  
CAAGGTGACAGGCCGCTGCGGCTCTGTGCTGGTGCGCCTCATCCCTGCACCCAGGGGCACTGGCATCGTCTCCGC  
ACCTGTGCCCAGAAGCTGCTCATGATGGCTGGTATCGATGACTGCTACACCTCAGCCCCGGGGCTGCACTGCCAC  
CCTGGGCAACTTCGCCAAGGCCACCTTTGATGCCATCTCTAAGACCTACAGCTACCTGACCCCCGACCTCTGGAA  
GGAGACTGTATTTACCAAGTCTCCCTATCAGGAATCACTGACCACCTCGTCAAGACCCACACCAGAGTCTCGGT  
GCAGCGGACCCAGGCTTCAGATGTGGCTACAACATAGGGTTTTTATACAAGAAAAATAAAGTGAATTAAGCCTG

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**FIGURE 806**

CGCAGGCTGGAAGGAAGACGAACCTACGAAGCAGAGATCTGAAGACAGCATGTACACAGCCATTCCCCAGAGTGG  
CTCTCCATTCCCAGGCTCAGTGCAGGATCCAGGCCTGCATGTGTGGCGGGTGGAGAAGCTGAAGCCGGTGCCTGT  
GGCGCAAGAGAACCAGGGCGTCTTCTTCTCGGGGGACTCCTACCTAGTGTGCACAATGGCCCAGAAGAGGTTTC  
CCATCTGCACCTGTGGATAGGCCAGCAGTCATCCCGGGATGAGCAGGGGGCCTGTGCCGTGCTGGCTGTGCACCT  
CAACACGCTGCTGGGAGAGCGGCCTGTGCAGCACC GCGAGGTGCAGGGCAATGAGTCTGACCTCTTCATGAGCTA  
CTTCCCACGGGGCCTCAAGTACCAGGAAGGTGGTGTGGAGTCAGCATTTACAAGACCTCCACAGGAGCCCCAGC  
TGCCATCAAGAACTCTACCAGGTGAAGGGGAAGAAGAACATCCGTGCCACCGAGCGGGCACTGAACTGGGACAG  
CTTCAACACTGGGGACTGCTTCATCCTGGACCTGGGCCAGAACATCTTCGCCTGGTGTGGTGGAAAGTCCAACAT  
CCTGGAACGCAACAAGGCGAGGGACCTGGCCCTGGCCATCCGGGACAGTGAGCGACAGGGCAAGGCCAGGTGGA  
GATTGTCACTGATGGGGAGGAGCCTGCTGAGATGATCCAGGTCTGGGCCCCAAGCCTGCTCTGAAGGAGGGCAA  
CCCTGAGGAAGACCTCACAGCTGACAAGGCAAATGCCCAGGCCGAGCTCTGTATAAGGTCTCTGATGCCACTGG  
ACAGATGAACCTGACCAAGGTGGCTGACTCCAGCCCCCTTGCCCTTGAAGTGTGATATCTGATGACTGCTTTGT  
GCTGGACAACGGGCTCTGTGGCAAGATCTATATCTGGAAGGGGCGAAAAGCGAATGAGAAGGAGCGGCAGGCAGC  
CCTGCAGGTGGCCGAGGGCTTCATCTCGCGCATGCAGTACGCCCCGAACACTCAGGTGGAGATTCTGCCTCAGGG  
CCGTGAGAGTCCCATCTTCAAGCAATTTTCAAGGACTGGAATGAGGGTGGGCGTCTTCTGCCCCATGCTCCC  
CTGCCCCCACCACCTGCCTGCTTGCTTCTCTGGCTGCCTGGTCAGTGCAGAGGTGCCCCCTGCAGATGTTCAAT  
AAAGGAGACAAGTGCTTTCCC

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**FIGURE 807**

MYTAIPQSGSPFPQSVQDPGLHVWRVEKLKVPVVAQENQGVFFSGDSYLVLHNGPEEVSHLHLWIGQQSSRDEQG  
ACAVLAVHLNLTLLGERPVQHREVQGNESDLFMSYFPRGLKYQEGGVESAFHKTSTGAPAAIKKLYQVKGKNIRA  
TERALNWDSFNTGDCFILDGQNIFAWCGGKSNILERNKARDLALAIRDSERQGAQVEIVTDGEEPAEMIQVLG  
PKPALKEGNPEEDLTADKANAAALYKVSDATGQMNLTQVADSSPFALELLISDDCFVLDNGLCGKIYIWKGRK  
ANEKERQAALQVAEGFISRMQYAPNTQVEILPQGRESPIFKQFFKDWK

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**FIGURE 808**

GGCACGAGGCGCCCGCCTGCTACGAGTAGAACGCTGTCCGCAGCTTGCGCATTTGCGAGCCGCTGCCGCTCGCC  
GCTGCTCCTTCGTAAGGCCACTTCCGCACACCGACACCAACATGAACGGACAGCTCAACGGCTTCCACGAGGCGT  
TCATCGAGGAGGGCACATTCTCTTTTACCTCAGAGTCGGTCGGGGAAGGCCACCCAGATAAGATTTGTGACCAAA  
TCAGTGATGCTGCTCTTGATGCCCACCTTCAGCAGGATCCTGATGCCAAAGTAGCTTGTGAACTGTTGCTAAAA  
CTGGAATGATCCTTCTTGCTGGGGAAATTACATCCAGAGCTGCTGTTGACTACCAGAAAGTGGTTCTGTAAGCTG  
TTAAACACATTGGATATGATGATTCTTCCAAAGGTTTTGACTACAAGACTTGTAACGTGCTGGTAGCCTTGGAGC  
AACAGTCACCAGATATTGCTCAAGGTGTTTCATCTTGACAGAAATGAAGAAGACATTGGTGCTGGAGACCAGGGCT  
TAATGTTTGGCTATGCCACTGATGAAACTGAGGAGTGATGCCCTTAACCATTGTCTTGGCACACAAGCTAAATG  
CCAACTGGCAGAACTACGCCGTAATGGCACTTTGCCTTGGTTACGCCCTGATTCTAAACTCAAGTTACTGTGC  
AGTATATGCAAGGATCGAGGTGCTGTGCTTCCCATCAGAGTCCACACAATTGTTATATCTGTTTCAGCATGATGAAG  
AGGTTTGTCTTGATGAAATGAGGGATGCCCTAAAGGAGAAAGTCATCAAAGCAGTTGTGCCTGCGAAATACCTTG  
ATGAGGATACAATCTACCACCTACAGCCAAGTGGCAGATTTGTTATTGGTGGGCCTCAGGGTGATGCTGGTTTGA  
CTGGACGCAAAATCATTGTGGACACTTATGGCGGTTGGGGTGCTCATGGAGGAGGTGCCCTTTTCAGGAAAGGATT  
ATACCAAGGTCGACCGTTTCAGCTGCTTATGCTGCTCGTTGGGTGGCAAAATCCCTTGTTAAAGGAGGTCTGTGCC  
GGAGGGTCTTGTTCAGGTCTCTTATGCTATTGGAGTTTCTCATCCATTATCTATCTCCATTTTCCATTATGGTA  
CCTCTCAGAAGAGTGAGAGAGAGCTATTAGAGATTGTGAAGAAGAATTCGATCTCCGCCCTGGGGTCAATGTCA  
GGGATCTGGATCTGAAGAAGCCAATTTATCAGAGGACTGCAGCCTATGGCCACTTTGGTAGGGACAGCTTCCCAT  
GGGAAGTGCCCAAAAGCTTAAATATTGAAGTGTTAGCCTTTTTTCCCCAGACTTGTGGCGTAGGCTACAGAG  
AAGCCTTCAAGCTCTGAGGGAAGGGCCCTCCTTCCATAAATTTTCTGTCTCTTTCAGCTCCTGACCAAGTTGCA  
GTCACCTCTAGTCAATGACATGAATTTTAGCTTTTGTGGGGGACTGTAAGTTGGGCTTGCTATTCTGTCCCTAGGT  
GTTTTGTTACCATTATAATGAATTTAGTGAGCATAGGTGATCCATGTAAGTGCCTAGAAACAACACTGTAGTAA  
ATAATGCTTTGAAATTGAACCTTTGTGCCCTATCACCAACGCTCCAAAGTCATAATTGCATTGACTTTCCCCAC  
CAGATGCTGAAATGTCTTGTGATGTGCACGTAAAGTACTTGTAGTTCACCTTATAGCCTCTGTCTGGCAATGC  
CACAGCCCTGTCAGCATGAATTTGTAATGTCTTGAGCTCTATTATGAATGTGAAGCCTTCCCTTATCCTCCCTG  
TAACCTGATCCATTCTAATTATGTAGCTCTTTGTGAGGGAGTGTTCCCTATCCAATCAATCTTGCATGTAACGC  
AAGTTCCAGTTGGAGCTCCAGCCTGACATCAAAAAGGCAGTTACCATTAAACCATCTCCCTGGTGCTTATGCT  
CTTAATTGCCACCTCTAACAGCACCAATCAAAATCTCTCCACTTTCAGCTGTCTTTTGGAGGACGTACGTAATA  
AGGTTTTAATTTAGTAAACCAATCCTATGCATGGTTTCAGCACTAGCCAAACCTCACCAACTCCTAGTTCTAGAA  
AAACAGGCACCTGGCAGCCTTGTGATGTCATACAGAGAAGTCACAGGGCAGTACCTGAGGGTCTGTAGGTTGCAC  
ACTTTGGTACCAGATAACTTTTTTTTTTCTTTATAAGAAAGCCTGAGTACTCCACACTGCACAATAACTCCTCCC  
AGGGTTTTTAACCTTTGTTTTTATTTTCAAACCAGGTCCAATGAGCTTTCTGAACAGCTGGTGTAGCTACAGAGAAA  
CCAGCTTCCCTTCAGAGAGCAGTGCTTTTGGCGGGGAGGAGGAAATCCCTTCATACTTGAACGTTTTCTAATTGCT  
TATTTATTGTATTCTGGGGTATGGCGTAAGTACAGAGAAGCCATCACCTCAGATGGCAGCTTTTAAAGATTTTT  
TTTTTTTCTCTCAACACCATGATTCTTTAAACAACATGTTTCCAGCATTCCCAGGTAGGCCAAGGTGTCCTACAG  
AAAAACCTTGGGTTAGACCTACAGGGGCTGTGGCTGGTGTAAACAGAAGGGAGGGCAGAGCTGGTGCGCTGGCC  
ATGGAGAAAGCTGACTTGGCTGGTGTGGTACAGAGAAGCCAGCTTGTTTACATGCTTATTCCATGACTGCTTGCC  
CTAAGCAGAAAGTGCCCTTTCAGGATCTATTTTTGGAGGTTTATTACGTATGTCTGGTTCTCAATCCAACAGTTT  
AATGAAGATCTAAATAAAATGCTAGGTTCTACCTTAAAAA

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**FIGURE 809**

MNGQLNGFHEAFIEEGTFLFTSESVGEGHPDKICDQISDAVLDAHLQQDPDAKVACETVAKTGMILLAGEITSRA  
AVDYQKVVRERAVKHIGYDDSSKGFYKTCNVLVALEQQSPDIAQGVHLDRNEEDIGAGDQGLMFGYATDETEECM  
PLTIVLAHKLNKLAELRRNGTLPWLRPDSKTQVTVQYMQDRGAVLPPIRVHTIVISVQHDEEVCLDEMRLALKEK  
VIKAVVPAKYLDDETIYHLQPSGRFVIGGPQGDAGLTGRKIIVDITYGGWGAHGGGAFSGKDYTKVDRSAAYAARW  
VAKSLVKGGLCRRVLVQVSYAIGVSHPLSISIFHYGTSQKSERELLEIVKKNFDLRPGVIVRDLDLKKPIYQRTA  
AYGHFGRDSFPWEVPKKLKY

[illegible]

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**FIGURE 811**

MKHIPVLEDGPWKIVCVKELNGLKKLKRKGKEPARRANGYKTFRLDLEAPEPRAVATNGLRDRTHRLQPVVPVVP  
VPVPVAPAVPPRGDTAGERRGGSRAPEVSDARKRCFALGAVGPGLP T P P P P P P P A P Q S Q A P G G P E A Q P F R E P G P  
RPRILLCAPPARPAPSAPPAPPAPPESTVRPAPPTRPGESSYSSISHVIYNNHQDSSASPRKRPGEATAASSEIK  
ALQQTRRLLANARERTRVHTISA AFEALRKQVPCYSYGQKLSKLAILRIACNYILSLARLADLDYSADHSNLSFS  
ECVQRCTRTLQAEGRAKKRKE

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**FIGURE 812**

GGCACGAGGGATGGCGGTTGTATCTGCTGTTTCGCTGGCTGGGCCTCCGCAGCAGGCTTGGCCAGCCGCTGACGGG  
TCGGCGGGCGGGTTTGTGTGAACAGGCACGCAGCTGCAGATTTTATTCTGGTAGTGCAACCCCTCTCAAAGGTTGA  
AGGAAGTGTATGAACAGGGATTGAAGAAGTAGTAATTCCAAAAAGAAAACCTGGGATAAAGTAGCCGTTCTTCA  
GGCACTTGATCCACAGTAAACAGGGATACACAGCTGTGCCTTATGTGTTTCAAGATGATCCTTACCTTATGCC  
AGCATCATCTTTGGAATCTCGTTCATTTTTACTGGCAAAGAAATCCGGGGAGAATGTGGCCAAGTTTATTATTAA  
TTCATACCCCAAATATTTTTCAGAAGGACATAGCTGAACCTCATATACCGTGTTTAAATGCCTGAGTACTTTGAACC  
TCAGATCAAAGACATAAGTGAAGCCGCCCTGAAGGAACGAATTGAGCTCAGAAAAGTCAAAGCCTCTGTGGACAT  
GTTTGATCAGCTTTTGCAAGCAGGAACCACTGTGTCTCTTGAACAACAAATAGTCTCTTGGATTTATTGTGTTA  
CTATGGTGACCAGGAGCCCTCAACTGATTACCATTTTTCAACAACTGGACAGTCAGAAGCATTGGAAGAGGAAAA  
TGATGAGACATCTAGGAGGAAAGCTGGTCATCAGTTTGGAGTTACATGGCGAGCAAAAAACAACGCTGAGAGAAT  
CTTTTCTCTAATGCCAGAGAAAAATGAACATTCCATTGACAAATGATCCGAGGAATGGTGAAGCACCAGCTTA  
TGAGCAGGCATTAACTTGTACACTGAGTTACTAAACAACAGACTCCATGCTGATGTATACACATTTAATGCATT  
GATTGAAGCAACAGTATGTGCGATAAATGAGAAATTTGAGGAAAAATGGAGTAAATACTGGAGCTGCTAAGACA  
CATGGTTGCACAGAAGGTGAAACCAAATCTTCAGACTTTTAAATACCATTCTGAAATGTCTCCGAAGATTTTCATGT  
GTTTGCAAGATCGCCAGCCCTTACAGGTTTTACGTGAAATGAAAGCCATTGGAATAGAACCCTCGCTTGCAACATA  
TCACCATATTATTTCGCTGTTTGATCAACCTGGAGACCCCTTAAAGAGATCATCCTTCATCATTATGATATAAT  
GAATGAATTAATGGGAAAGAGATTTTCTCAAAGGACCCGGATGATGATAAGTTTTTTCAGTCAGCCATGAGCAT  
ATGCTCATCTCTCAGAGATCTAGAACTTGCTACCAAGTACATGGCCTTTTAAAAACCGGAGACAACCTGGAAAT  
CATTGGACCTGATCAACATCGTAATTTCTATTATTCCAAGTTCTTCGATTGATTGTCTAATGGAACAAATTGA  
TGTTACCTTGAAGTGGTATGAGGACCTGATACCTTCAGCCTACTTTCCCACTCCCAACAATGATACATCTTCT  
CCAAGCATTGGATGTGGCCAATCGGCTAGAAGTGATTCTTAAATTTGGAAGATAGTAAAGAATATGGTCATAC  
TTTCCGCACTGACCTGAGAGAAGAGATCCTGATGCTCATGGCAAGGGACAAGCACCCACCAGAGCTTCAGGTGGC  
ATTTGCTGACTGTGCTGCTGATATCAAATCTGCGTATGAAAGCCAACCCATCAGACAGACTGCTCAGGATTGGCC  
AGCCACCTCTCTCAACTGTATAGCTATCCTCTTTTAAAGGGCTGGGAGAACTCAGGAAGCCTGGAATAATGTTGGG  
GCTTTTCAGGAAGCATAATAAGATTCTTAGAAGTGAGTTGCTGAATGAGCTTATGGACAGTGCAAAAGTGTCTAA  
CAGCCCTTCCCAGGCCATTGAAGTAGTAGAGCTGGCAAGTGCCCTCAGCTTACCTATTTGTGAGGGCCTCACCCA  
GAGAGTAATGAGTGATTTTGCAATCAACCAGGAACAAAAGGAAGCCCTAAGTAATCTAACTGCATTGACCAGTGA  
CAGTGATACTGACAGCAGCAGTGACAGCGACAGTGACACCAGTGAAGGCAAATGAAAGTGGAGATTGAGGAGCAG  
CAATGGTCTCACCATAGCTGCTGGAATCACACCTGAGAACTGAGATATACCAATATTAAACATTGTTACAAAGAA  
GAAAAGATACAGATTTGGTGAATTTGTTACTGTGAGGTACAGTCAGTACACAGCTGACTTATGTAGATTTAAGCT  
GCTAATATGCTACTTAACCATCTATTAATGCACATTAAAGGCTTAGCATTTAAGTAGCAACATTGCGGTTTTCA  
GACACATGGTGAGGTCCATGGCTCTTGTATCAGGATAAGCCTGCACACCTAGAGTGTGCGGTGAGCTGACCTCAC  
GATGCTGTCTCGTGCGATTGCCCTCTCTGCTGCTGGACTTCTGCCTTTGTTGGCCTGATGTGCTGCTGTGATG  
CTGGTCTTCATCTTAGGTGTTTCATGCAGTTCTAACACAGTTGGGGTTGGGTCAATAGTTTCCCAATTTGAGGAT  
ATTTGATGTGAGAAATAACGCATCTTAGGAATGACTAAACAAGATAATGGCAGTTTAGGCTGCACAACCTGGTAA  
AATGACTGTAGATAAATGTTGTAATTAGTGTACAGTTTGTATTTTTGTTAATATAGCCGCTGCCATAGTTTTCT  
AACTTGAACAGCCAAAAA



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**FIGURE 813**

MVAQKVKPNLQTFNTILKCLRRFHV FARSPALQVLREMKAIGIEPSLATYHHIIRLFDQPGDPLKRSSFIIYDIM  
NELMGKRFSPKDPDDDKFFQSAMSISSLRDLELAYQVHGLLKTGDNWKFIGPDQHRNFYYSKFFDLICLMEQID  
VTLKWYEDLIPSAYFPHSQTMIHLLQALDVANRLEVIPKIWKDSKEYGHTFRSDLREEILMLMARDKHPPPELQVA  
FADCAADIKSAYESQPIRQTAQDWPATSLNCIAILFLRAGRTQEAWKMLGLFRKH NKIPRSELLNELMDSAKVSN  
SPSQAI EVVELASAFSLPICEGLTQRVMSDFAINQEQKEALSNLTALTSDDTDSSSDSDSDTSECK

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## FIGURE 814

ACGCGGGCACGCACACGGAAGCACGCCTCCACTTAACTCGCGCCGCCGCGGCAGCTCGAGTCCACCAGCAGCG  
CCGTCCGCTTGACCGAGATGCTGCGGGCCTGTCAGTTATCGGGTGTGACCGCCGCCGCCCAGAGTTGTCTCTGTG  
GGAAGTTTGTCTCCGTCCATTGCGACCATGCCGAGATACTCTACTTCAGGCAGCTCTGGGTTGACTACTGGCA  
AAATTGCTGGAGCTGGCCTTTTGTGTTGTTGGTGAGGTATTGGTGGCACTATCCTATATGCCAAATGGGATTCCC  
ATTTCCGGGAAAGTGTAGAGAAAACCATACCTTACTCAGACAACTCTTCGAGATGGTTCTTGGTCTGCAGCTT  
ATAATGTTCCATTGCCAAAGAAATCGATTAGTCGGGTCCACTAAAAATCTCTAGTGTATCAGAAGTAATGAAAG  
AATCTAAACAGTCTGCCTCACAACTCCAAAAACAAAAGGGAGATACTCCAGCTTCAGCAACAGCACCTACAGAAG  
CGGCTCAAATTATTTCTGCAGCAGGTGATACCTGTGCGTCCCAGCCCCTGCAGTTCAGCCTGAGGAATCTTAA  
AAACTGATCACCTGAAATTGGTGAAGGAAAACCCACACCTGCACCTTCAGAAGAAGCATCCTCATCTTCTATAA  
GGGAGCGACCACTGAAGAAGTTGCAGCTCGCCTTGCAACAGGAAAAACAAGAACAAGTTAAAATTGAGTCTC  
TAGCCAAGAGCTTAGAAGATGCTCTGAGGCAAACCTGCAAGTGTCACTCTGCAGGCTATTGCAGCTCAGAATGCTG  
CGGTCCAGGCTGTCAATGCACACTCCAACATATTGAAAGCCGCCATGGACAATTCTGAGATTGCAGGCGAGAAGA  
AATCTGCTCAGTGGCGCACAGTGGAGGGTGCATTGAAGGAACGCAGAAAGGCAGTAGATGAAGCTGCCGATGCC  
TTCTCAAAGCCAAAGAAGAGTTAGAGAAGATGAAAAGTGTGATTGAAAATGCAAAGAAAAAGAGGTTGCTGGGG  
CCAAGCCTCATATAACTGCTGCAGAGGGTAAACTTCACAACATGATAGTTGATCTGGATAATGTGGTCAAAGAGG  
TCCAAGCAGCTCAGTCTGAGGCTAAGGTTGTATCTCAGTATCATGAGCTGGTGGTCCAAGCTCGGGATGACTTTA  
AACGAGAGCTGGACAGTATTACTCCAGAAGTCCTTCTCGGATGGAAGGAATGAGTGTTCAGACTTAGCTGACA  
AGCTCTCTACTGATGATCTGAACCTCCTCATTGCTCATGCACATCGTCGTATTGATCAGCTGAACAGAGAGCTGG  
CAGAACAGAAGGCCACCGAAAAGCAGCACATCACGTTAGCCTTGGAGAAAACAAAAGCTGGAAGAAAAGCGGGCAT  
TTGACTCTGCAGTAGCAAAAGCATTAGAACATCACAGAAGTGAAATACAGGCTGAACAGGACAGAAAGATAGAAG  
AAGTCAGAGATGCCATGGAAAATGAAATGAGAACCCAGCTTCGCCGACAGGCAGCTGCCCACACTGATCACTTGC  
GAGATGTCCTTAGGGTACAAGAACAGGAATTGAAGTCTGAATTTGAGCAGAACCTGTCTGAGAACTCTCTGAAC  
AAGAATTACAATTCGTCGTCTCAGTCAAGAGCAAGTTGACAACCTTACTCTGGATATAAATACTGCCTATGCCA  
GACTCAGAGGAATCGAACAGGCTGTTTCAGAGCCATGCAGTTGCTGAAGAGGAAGCCAGAAAAGCCCACTCT  
GGCTTTTCAGTGGAGGCATTAAAGTACAGCATGAAGACCTCATCTGCAGAAACACCTACTATCCCCTGGGTAGTG  
CAGTTGAGGCCATCAAAGCCAAGTCTGATAATGAATTCACCCAAGCTTTAACCGCAGCTATCCCTCCAGAGT  
CCCTGACCCGTGGGGTGTACAGTGAAGAGACCCTTAGAGCCGTTTCTATGCTGTTCAAAAAGTGGCCGAAGGG  
TAGCAATGATTGATGAACCAGAAATAGCTTGTACAGTACTTCTCTCCTACCTACAGTCCCTGCTCCTATTCC  
CACCTCAGCAACTGAAGCCGCCCCCAGAGCTCTGCCCTGAGGATATAAACACATTTAAATTACTGTCATATGCTT  
CCTATTGCATTGAGCATGGTGATCTGGAGCTAGCAGCAAAGTTTGTCAATCAGCTGAAGGGGGAATCCAGACGAG  
TGGCACAGGACTGGCTGAAGGAAGCCGAATGACCCTAGAAACGAAACAGATAGTGGAAATCCTGACAGCATATG  
CCAGCGCCGTAGGAATAGGAACCACTCAGGTGCAGCCAGAGTGGAGGTTTAGGAAGATTTTCATAAAGTCATATTT  
CATGTCAAAGGAAATCAGCAGTGATAGATGAAGGGTTCGCAGCGAGAGTCCCGGACTTGTCTAGAAATGAGCAGG  
TTTACAAGTACTGTTCTAAATGTTAACACCTGTTGCATTTATATCTTTCCATTTGCTATCATGTGAGTGAACGC  
CAGGAGTGCTTTCTTTGCAACTTGTGTAACATTTCTGTTTTTTCAGGTTTTACTGATGAGGCTTGTGAGGCCAA  
TCAAAATAATGTTTGTGATCTCTACTACTGTTGATTTTGCCCTCGGAGCAAACCTGAATAAAGCAACAAGATG

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**FIGURE 815**

MLRACQLSGVTAAAQSCLCGKFVLRPLRPCRRYSTSGSSGLTTGKIAGAGLLFVGGGIGGTILYAKWDSHFRESV  
EKTIPYSDKLFEMVLGPAAYNVPLPKKSIQSGPLKISSVSEVMKESKQSASQLQKQKGDTPASATAPTEAAQIIS  
AAGDTLSVPAPAVQPEESLKTDPHPEIGEGKPTPALSEEASSSSIRERPPEEVAARLAQQEKQEQVKIESLAKSLE  
DALRQTASVTLQAIAAQNAAVQAVNAHSNLIKAAAMDNSEIAGEKKSAQWRTVEGALKERRKAVDEAADALLKAKE  
ELEKMKSVIENAKKKEVAGAKPHITAAEGKLHNMIVDLDNVVKVQAAQSEAKVVSQYHELVVQARDDFKRELD  
ITPEVLPGWKGMVSVDLADKLSTDDLNSLIAHAHRRIDQLNRELAEQKATEKHITLAEKQKLEEKRAFD  
KALEHHRSEIQAEQDRKIEEVRDAMENEMRTQLRRQAAHTDHLRDVLRVQEQELKSEFEQNLSEKLSEQELQFR  
RLSQEQVDNFTLDINTAYARLRGIEQAVQSHAVAEAEARKAHQLWLSVEALKYSMTSSAETPTIPLGSAVEAIK  
ANCSDNEFTQALTAIIPPELSTRGVYSEETLRARFYAVQKLARRVAMIDETRNSLYQYFLSYLSLLFPQQLK  
PPPELCPEDINTFKLLSYASYCIEHGDLELAAKFVNQLKGESRRVAQDWLKEARMILETKQIVEILTAYASAVGI  
GTTQVQPE

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**FIGURE 816**

TAGTGCCGCCGCTCCCTACTCTGCGGGTTGGGACTACCTCCTTTTCCGCGGGCCCCGCCAGGCGGCTGCCCCGTG  
ACCTGCCTGGGCGCGGGGAACTGAAAGCCGGAAGGGGCAAGACGGGTTTCAGTTCGTTCATGGGGCTGTTTGAAAG  
ACCCAGGAGAAGCCGCCCAAAGAACTGGTCAATGAGTGGTCATTGAAGATAAGAAAGGAAATGAGAGTTGTTGAC  
AGGCAAATAAGGGATATCCAAAGAGAAGAAGAAAAAGTGAACGATCTGTGAAAGATGCTGCCAAGAAGGGCCAG  
AAGGATGTCTGCATAGTTCTGGCCAAGGAGATGATCAGGTCAAGGAAGGCTGTGAGCAAGCTGTATGCATCCAAA  
GCACACATGAAGTCAAGTGCATGGGGATGAAGAACCAGCTCGCGGTCTTGCGAGTGGCTGGTTCCCTGCAGAAG  
AGCACAGAAGTGATGAAGGCCATGCAAAGTCTTGTGAAGATTCCAGAGATTTCAGGCCACCATGAGGGAGTTGTCC  
AAAGAAATGATGAAGGCTGGGATCATAGAGGAGATGTTAGAGGACACTTTTGAAAGCATGGACGATCAGGAAGAA  
ATGGAGGAAGAAGCAGAAATGGAAATTGACAGAATTCTCTTTGAAATTACAGCAGGGGCCTTGGGCAAAGCACC  
AGTAAAGTGACTGATGCCCTTCAGAGCCAGAACCCTCAGGAGCGATGGCTGCCTCAGAGGATGAGGAGGAGGAG  
GAAGAGGCTCTGGAGGCCATGCACTCCCGGCTGGCCACACTCCGCGAGTAGGGGCTGCCTACCCCGCTGGGTGTG  
CACACACTCCTCTCAAGAGCTGCCATTTTATGTGTCTCTTGCACTACACCTCTGTTGTGAGGACTACCATTTTGG  
AGAAGGTTCTGTTGTCTCTTTTCACTCTCTGCCAGGTTTTGGGATCGCAAAGGATTGTTCTTATAAAAGTGG  
CATAAATAAATGCATCATTTTTAGGAGTATAGACAGATATATCTTATTGTGGGAGGGGAAAGAAATCCATCTGC  
TCATGAAGCACITCTGAAAATATAGGTGATTGCCTGAATGTGCAAGACTCTACTTTTGTCTATAAAACACTATAT  
AAATGAATTTTAAATAAATTTTTGCTTTAGCACTTGGCCCCATTGTAGATTGCCCTGTGCAGTAAACTTTCAAGGT  
GTCGGCTGCCCCAGATTGCTTCATTGCTGGGTGTGGAAAGAGTTGCTATGGCCAGGCATATGGGATTGTGAAGC  
TCAGCAGAAGTGACTTCTGCTCTGTGGTTGCTGCTCCCCGGCTTTACAGACATGGTATGGCAGCCATTCTTTTA  
TCTATTTAACCAAGAGGATGCTGGGGAATTGTGCTGCTTGTCTGTTGGCTGGTGGCTGCATTATGTCCTGGGGT  
GTGCATGTGGGTCTATTTAGAGCTTCTGTCCCTTCCTTCCCATTGCAAGTTGCACCCAGATGAGACAGCTGTAGT  
ACTAGGTCTCTTTACCTCTCATTGCTGTCCCTGCTTCGAGCTGGTTGTCTGTGCGTGGGACATGGGCCTTCC  
TATCTGTGTTTTCTCAAAGTCAGGAGCTGACCAGGAGCACACTAAGGTGTGGTCATGCATCATAACCAACATCA  
CTCATCTGGGACATTCTTAAGATACATTATAAATCATTTCAGCAGTAGTACTTTGTATGTGTTGAGAGTTTACA  
GAGCTCTTTGACATACGCGATCTTAGTCTTTACAAATAAGGAAAACAGCTCAGTTTGGGAAGTATCAGAGATGGG  
ATTCAAACCCAGATCCTCTGGTCCAAGTTGTATGTGCACTGAACATAACAGGCAGGAAAAAAGCCCACTGT  
CTCAGAGATTGTTTTTGTATATTGTAGCAAAATCCTGAACAATGGGGTCTTCCAGTCTCATCATACAAATG  
GCAATCTTGGCTGGGTGCGGTGGTTTCATGCCTATAATCCCAGTGCTTTACAAGGCTGAGGCAGGCTCTCTTG  
AGAATAGGAGTTCAAGACCAGCCTGGGCAACATAGCAAGATCCTGTCTCTCCAAAAAAGGCTCTCTTG  
AAAATTTCATTTTTGTAGTCCAGAGGACCTCCTATTACTCTTGATTTTCATCTTCAGAGTGTAGTTAAAAATTAT  
TTTAAATAATTATTTTTTAAATCAGTTGTAGGTTTCACAGCAAAAGTGGACAAAAAGAAATTTCTCATATATCCC  
CTGCCCTCACACATGCATAGCCTCCCACCACTATCAGTATCCACACCAGAGTGGTACATTTGTTACAATCAATA  
AACCTCCATTGACACATCATTATCACCCAAAGTCCATAGTTTACATGAAGATTCACTCTGGTGTGTACATTGTA  
TGGGCTTAGACAAATGTATGATGATATCTACAATTATAGAATCATACAGAATAGTTTCACTGCCCTAAAACTTCT  
CTATGCTTCACTGTTCATCCCTTTCTTCCCTAATCCCCTGGCAACCACTTTAAAAAAGGCTTTAGGTTTCAGGGG  
GTACATGTGCAGGTAACTCGTGACAAGGGGGTTGTTATACAGATTATTTAGTGACCCAGGTACTAAGCCTAGT  
ACCCAATAGTTACTTTTCTGGTCCCTGTCCCTTTTCCACCCCTCCACCCCTCAGGTAGGCCCCAGTATGTTATTCCT  
TTGTGTCCATGTTATTTCACTCCCACTTGTGAGAACATGGAATATTGGTTTCTGTTTCTATGTTAGTTTGTTA  
AGGATAATGGCCTCCAGCCCCATCCATGTTCTGCAAGGACATGATCTTTCTTTGGCAACCACTTTTTACTGTC  
GCCATAGTTCTTCTTTCTAGAATGTCTATTTGAATCATATAGTAGCCTTTTCAGACTGGCTTCTTTCA  
CTTAATAATATGCAATTAAGGTTCTCCATGTCTTTCATGGCTTAATAGTGCATTTATTTTAGCACTGAATAA  
TACTCCATTGTCTAGATGAATAGTTTATCCATTACCTATTGAAAGACTTCTTGGTGGTTTCCAAGTTTGGCAA  
TTATGAATAAAGCTGTTGTAAACATCTTTGTGCAGGTTTTCTATGGGCATGTTTTTAATTCATTTGAATAAATA  
CCAAGAGCTTCAGTGTGGATCATA

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**FIGURE 817**

CAGGACACAGCATGGACATGAGGGTCCCCGCTCAGCTCCTGGGGCTCCTGCTGCTCTGGCTCCCAGGTGCCAAAT  
GTGACATCCAGATGACCCAGTCTCCTTCCACCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCACTTGCCGGG  
CCAGTCAGAGTATTAGTAGCTGGTTGGCCTGGTATCAGCAGAAACCAGGGAAAGCCCCCTAAGCTCCTGATCTATA  
AGGCGTCTAGTTTAGAAAGTGGGGTCCCATCAAGGTTAGCGGCAGTGGATCTGGGACAGAATCACTCTCACCA  
TCAGCAGCCTGCAGCCTGATGATTTTGCAACTTATTACTGCCAACAGTATAATAGTTATTCTCCACATGGACGT  
TCGGCCAAGGGACCAAGGTGGAAATCAAACGAACGTGGCTGCACCATCTGTCTTCATCTTCCCGCCATCTGATG  
AGCAGTTGAAATCTGGAAGTGCCTCTGTTGTGTGCCTGCTGAATAACTTCTATCCCAGAGAGGCCAAAGTACAGT  
GGAAGGTGGATAACGCCCCTCCAATCGGGTAACTCCCAGGAGAGTGTACAGAGCAGGACAGCAAGGACAGCACCT  
ACAGCCTCAGCAGCACCTGACGCTGAGCAAAGCAGACTACGAGAAACACAAAGTCTACGCCTGCGAAGTCACCC  
ATCAGGGCCTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGTTAGAGGGAGAAGTGCCCCCACCTGC  
TCCTCAGTTCCAGCCTGACCCCTCCCATCCTTTGGCCTCTGACCCTTTTCCACAGGGGACCTACCC

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**FIGURE 818**

GCGGCCGTTACGGCGCTCAGGCGTCTCGACGCGCGGATTTAAACCAGCTCAGGAGACGCCAAGGAAAGATGGG  
ACCTCCCGGCCAGCACTGCCAGCCACAATGAATAACTCTTCTTCAGAGACGCGAGGACACCCCCACAGTGCCTC  
CTCTCCTTCAGAGCGTGTGTTCCCGATGCCCCTGCCAGGAAGGCGCTCTCAATATTCCTGGCACCCAGTCTCT  
CGAAGACTTTCCTCAGAATGACGATGAGAAGGAGCGGCTGCAGCGGAGGCGCTCGAGGGTCTTTGATCTGCAGTT  
CAGCACTGACTCACCCTCGCTTATTGGCCTCCCCCTCCAGCAGGAGTATTGACATTTACAGTACTATCCCCAAGTT  
TACAAACACGCAGATTACGGAACATTACTCCACCTGTATCAAACCTGTCCACTGAAAATAAAATCACTACCAAGAA  
TGCTTTTGGTTTGCACTTGATTGATTTTATGTGAGAGATTCTTAAACAGAAAGACACCGAACCAACCAACTTTAA  
AGTGGCTGCGGGTACTCTGGATGCCAGCACCAAGATCTATGCTGTGCGCGTGGATGCCGTCCATGCCGATGTATA  
CAGAGTCTTTGGGGGCTGGGCAAAGATGCACCGTCTTTGGAAGAAGTAGAAGGCCATGTTGCTGATGGAAGTGC  
TACTGAAATGGGAACAACCAAAAAGGCTGTAAAGCCAAAGAAGCACTTACACAGAACTATTGAGCAGAACAT  
AAACAACCTCAATGTCTCCGAAGCAGATCGGAAGTGTGAGATTGATCCCATGTTTCAGAAGACAGCAGCCTCATT  
TGATGAGTGCAGCACAGCAGGGGTGTTTCTGTCCACTCTCCACTGCCAGGACTACAGAAGTGAAGTGTGTTTCC  
CTCTGATGTCCAGACTCTCTCCACGGGAGAACCTCTCGAGTTGCCAGAGTTAGGTTGTGTAGAAATGACAGATT  
AAAAGCGCCCTTGCAGCAGTGTGCAGAAGATCGCCAGATCTGCCCTTCCCTGGCCGGGTTCAGTTTACACAGTG  
GGACAGTGAAACACATAATGAGTCTGTGTGCGGCCCTGGTAGACAAGTTTAAAGAAGATGACCAGGTATTTGACAT  
CAATGCTGAAGTTGACGAGAGTGAAGTGTGGAGACTTCCCGATGGGTCCCTGGGGGATGACTTTGATGCCAACGA  
TGAACCTGACCACACCGCAGTTGGGGATCATGAAGAGTTCAGGAGCTGGAAGGAGCCCTGCCAGGTTACAGAGCTG  
CCAGGAAGAAATGATTTCCCTTGGGGATGGAGACATCAGGACCATGTGCCCTTCTGTCTATGAAACCTGGAGA  
ATATTTCTTATTTAGTCTCGGACCATGTGATGTGGGTGGCCCGGATCACTGGCGCTTTAGGCTCGACGCAA  
ACAAGATGCTCCTTCCCAATCAGAAAACAAAAAGAAGAGTACAAAAAAGATTTGAAATTGACTTTGAAGATGA  
TATTGACTTTGATGTATATTTTAGAAAAACAAAGGCTGCTACTATTCTGACCAAGTCCACTTTGGAGAACCAGAA  
TTGGAGAGCTACCACCCTTCTACAGATTTCAACTACAATGTTGACACTCTGGTCCAGCTTACCTCAAACCAGG  
CACCAGGTTACTTAAGATGGCCCAGGGCCATAGGGTAGAGACTGAGCATTATGAAGAAATTGAAGACTATGATTA  
CAACAACCCCTAACGACACCTCCAACCTTTTGCCCTGGATTACAGGCTGCTGACAGTGATGATGAAGATTGGATGA  
CTTATTTGTGGGACCTGTTGGGAACTCTGACCTCTCACCTTATCCTTGCCATCCACCTAAGACAGCACAAACAGAA  
TGGTGACACTCCAGAAGCCCAAGGATTAGACATCACAAATATGGGGAGTCAAACCTGGTAGCTGAGCCTCAGAA  
GGTAAATAAAATTGAAATTCATATGCCAAGACTGCCAAAAAGATGGACATGAAGAACTGAAGCAGAGCATGTG  
GAGTCTGCTGACAGCGCTCTCCGGAAAGGAGGCAGATGCAGAGGCAAACACAGGGAAGCTGGAAAAGAAGCGGC  
CCTGGCAGAAAGTGGCTGACGAGAAGATGCTTAGCGGGCTCACGAAGGACCTGCAGAGGAGCCTGCCCTTGTCTAT  
GGCTCAGAACCTCTCCATACCTCTGGCTTTTGCTGTCTCCTACATTTAGCCAATGAAAAGAATCTAAACTGGA  
AGGAACAGAGGACCTCTCTGATGTTCTTGTGAGGCAAGGAGATTGAGTTCACTATGGAGAAGTCAGCAGCAGGAG  
GCCATCCCTTACTCAGTTGCCGGGACATCCCCAGTCTCGGGGAAGAAGATGCCATGGGCTTATACCCAGGCTG  
TAGCCAACCTACCAACGTGCCTGTTTGTGTTGTGCTCTTCTCTCCATCATAGTCTGGGTGCCAGCGCCCTG  
AAGCTCCGTGCTCAACTGATTAACTTTACTGCCCTATGGTGACCATCTAGGAGAGGGGAGGGCAGAGGGGTGA  
GGGTACTATTCTGGATTGAGAAAACCTATATCCATTCTTTATATCAATGTATAGTTTTAGTCTCCTAAATTGATC  
TGTTATTTTCCAAACTATTCTTGTAGAAAATTTCCAGTGGGCACCTAATGGTGCCCTTGAAGAACTTCTTAA  
TCCATGTACATAAAATACATCATATGTACACTTATAAATGTATATAGAATGCTCAAAAATAAAATTCTTAATAAT  
AGAACTGGCAAAATA

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**FIGURE 819**

MGPPGPALPATMNNSSSETRGHPSASSPSERVFPMLPRKAPLNIPGTPVLEDFPQNDDEKERLQRRRSRVFDL  
QFSTDSPRLLASPSRSIDISATIPKFTNTQITEHYSTCIKLSTENKITTNAFGLHLIDFMSEILKQKDTEPTN  
FKVAAGTLDASTKIYAVRVDAVHADVYRVLGGLGKDAPSLEEVEGHVADGSATEMGTTKAVKPKKKHLHRTIEQ  
NINNLNVSEADRKCEIDPMFQKTAASFDECSTAGVFLSTLHCQDYRSELLFP SDVQTLSTGEPLLELPELGCVEMT  
DLKAPLQQCAEDRQICPSLAGFQFTQWDSETHNESVSALVDKFKKNDQVFDINAEVDES DCGDFPDGSLGDDFDA  
NDEPDHTAVGDHEEFRSWKEPCQVQSCQEEMISLGDGDIRTMCPLLSMKPGEYSYFSPRTMSMWAGPDHWRFRPR  
RKQDAPSQSENKKKSTKKDFEIDFEDDIDFDVYFRKTKAATILTKSTLENQNW RATTLP TDFNYNVDTLVQLHLK  
PGTRLLKMAQGHRVETEHYEEIEDYDYNPNPNDTSNFCPGLQAADSDDDLDDLFVGPVGN SDSLSPYPCHPPKTAQ  
QNGDTPEAQGLDITTYGESNLVAEPQKVNKIEIHYAKTAKKMDMKKLQSMWSLLTALSGKEADAEANHREAGKE  
AALAEVADEKMLSGLT KD LQ RSLPPVMAQNLSIPLAFACLLHLANEKNL KLEGTEDLS DVLVRQGD

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**FIGURE 820A**

TTCCAAGAAGAAGGATTTGCACCCCTCGGGATATTGATGCATTTTGGCTGCAGCGGCAGCTCAGTCGTTTCTATGA  
TGATGCCATCGTGTGCGCAGAAGAAGGCAGATGAAGTATTGGAGATTTTGAAGACGGCCAGTGATGATCGGGAATG  
TGAAATCAGCTGGTTCTGCTGCTTGGTTTCAACACCTTTGATTTTCAATAAGTGTTCGGGCAGCACAGGATGAT  
GATTTTATACTGTACCTTGCTGGCCAGTGCACAAAGTGAAGCTGAAAAGGAAAGGATTATGGGAAAGATGGAAGC  
TGACCCAGAGCTATCCAAGTTCTCTACAGCTTCATGAAACCGAGAAGGAGGATCTGATCCGAGAGGAAAGGTC  
CCGGAGAGAGCGAGTGCCTCAGTCTCGAATGGACACAGATCTGGAACCATGGATCTCGACAGGGTGGAGAGGC  
ACTGGCTCCACGGCAGGTTCTGGACTTGGAGGACCTGGTTTTTACCCTAAGGGAGCCACTTTATGGCCAATAAACG  
CTGTCAGCTTCTGATGGATCCTTCCGTGCGCCAGCGTAAGGGCTATGAAGAGGTGCATGTGCTGCTCTGAAGCC  
CAAGCCCTTTGGCTCAGAAGAACAACCTGCTTCCAGTGGAAAAGCTGCCAAAGTATGCCAGGCTGGGTTTGAGGG  
CTTCAAAACACTGAATCGGATCCAGAGTAAGCTCTACCGTGTGCCCCTTGAGACGGATGAGAATCTGCTGCTGTG  
TGCTCCTACTGGTGTGGGAAGACCAACGTGGCCCTGATGTGCATGCTCCGAGAGATTGGGAAACACATAAACAT  
GGACGGCACCATCAATGTGGATGACTTCAAGATTATCTACATTGCCCCCATGCGCTCCTTGGTGCAGGAGATGGT  
GGGCAGCTTTGGAAAGCGCCTGGCCACTTATGGCATCACTGTTGCTGAACTGACTGGGGACCACAGCTGTGCAA  
AGAAGAGATCAGTGCCACTCAGATCATCGTCTGCACCCCGAGAAGTGGGACATCATACCCGCAAGGGTGGTGA  
GCGACCTACACCCAGCTGGTGGGGCTCATATTCTGGATGAGATTCTCTTCTCCAGATGACAGAGGTCTGT  
CTTAGAAGCTTTAGTGGCCAGGGCCATCCGAAACATTGAGATGACCCAAGAGGATGTCCGACTCATTGGTCTCAG  
TGCCACCCCTACCCAACATATGAAGATGTAGCCACCTTTCTACGTGTTGACCCTGCCAAGGGTCTCTTTTACTTTGA  
CAACAGCTTCCGTCCAGTGCCCTCTGGAACAGACATATGTGGGTATCACAGAGAAAAAGCTATCAAGCGTTTCCA  
GATCATGAATGAATCGTCTATGAAAAATCATGGAACATGCTGGAAAAATCAGGTGCTGGTGTGTTGTCCACTC  
CCGGAAGGAGACTGGAAAGACAGCCAGGGCCATCCGGGACATGTGCCTAGAAAAGGACACTCTGGGTCTGTTTCT  
GAGGGAGGGCTCAGCCTCCACAGAAGTCTGCGAACAGAAGCTGAGCAGTGCAAGAACCTAGAGCTGAAGGATCT  
TCTGCTTATGGCTTTGCTATTATCACGCAGGCATGACCAGGGTTGACCGAACACTCGTGAGGATCTTTTTGC  
TGATAAACATATTAGGTTTTAGTTTCCACAGCAACTCTAGCTTGGGGTGTGAATCTCCCTGCACATACAGTCAT  
CATCAAAGGCACCCAGGTGTACAGTCCAGAGAAGGGGCGTTGGACAGAACTGGGAGCACTGGACATTCTGCAGAT  
GCTGGGACGTGCCGGAAGACCCCAAGTATGACACCAAGGGTGAAGGCATACTCATCATCTCATGGGGAGCTACA  
GTACTACCTGTCCCTCCTCAATCAACAACCTTCTATTGAAAGCCAGATGGTTCAAAGCTTCTGACATGCTCAA  
TGCAGAAATCGTGCTAGGAAATGTCCAGAAATGCCAAGGATGCGGTGAACTGGCTGGGCTATGCCTACCTCTATAT  
CCGAATGTGCGATCCCCAACCTCTATGGCATCTCTCATGATGACCTCAAGGGAGATCCCCGTGCTGGACACGG  
CCGACTAGATCTGGTTCATACAGCTGCCCTGATGTGTCGACAGAACAATCTGGTCAAGTACGACAGAAGACGGG  
CAACTTCCAGGTGACAGAACTGGGCCGTATAGCCAGCCACTACTACATCACCATGATACAGTGCAGACTTACAA  
CCAGCTGCTGAAGCCCACCCTGAGTGAGATTGAGCTTTTCAGGGTCTTCTCATTGTCTCTGAGTTCAAGAACAT  
CACAGTGAGAGAGGAGGAGAAGCTGGAGCTGCAGAAGTTGCTGGAGAGGGTGCCTATCCCTGTAAAGGAGAGCAT  
TGAGGAACCCAGTGCTAAGATCAACGTTCTTCTGCAAGCCTTCATCTCACAGCTGAAATTGGAGGGCTTTGCACT  
GATGGCTGACATGGTGTATGTACACAGTCGGCTGGCCGGTTGATGCGAGCGATAATTGAAATTGTCTGAAACCG  
AGGTTGGGCACAGCTTACAGACAAGACCTGAACCTCTGCAAGATGATCGACAAACGCATGTGGCAGTCCATGTG  
TCCTCTGCGCCAGTTCCGGAACTCCCTGAGGAAGTAGTGAAGAAGATTGAGAAGAAGATTTCCCTTTGAGCG  
TCTGTACGACCTGAATCATAATGAGATTGGGGAGCTTATCCGCATGCCAAAGATGGGGAAGACCATCCACAAATA  
TGTCATCTGTTTCCCAAGTTGGAGTTGTCTAGTGCACCTGCAGCCTATCACACGCTCCACCCTGAAGGTGGAGCT  
GACCATCACGCCAGACTTCCAGTGGGATGAAAAGGTGCATGGTTTCATCCGAGGCTTTTGGATTCTGGTGGAGGA  
TGTGGACAGCGAGGTGATTCTGCACCATGAGTATTTCTCCTCAAGGCCAAGTACGCCCAGGACGAGCACTCAT  
TACATTCTTCGTGCTGTCTTTGAACCGCTGCCCCCTCAGTACTTCATCCGAGTGGTGTCTGACCGCTGGCTCTC  
TTGTGAGACCCAGCTGCCTGTCTCCTTCCGGCACCTGATCTTGGCGGAGAAGTACCCCCCTCAACCGAACTTTT  
GGACCTGCAGCCCTTGCCCGTGTCTGCTCTGAGAAACAGTGCCTTTGAGAGTCTTTACCAAGATAAATTTCTTTT  
CTTCAATCCCATCCAGACCCAGGTGTTTAAACATGTATACAACAGTGACGACAACGTGTTTGTGGGGGCCCCAC  
GGGCAGCGGGAAGACTATTTGTGCAGAGTTTGCCATCCTGCGAATGTGCTGCAGAGCTCGGAGGGGCGCTGTGT  
GTACATACCCCCATGGAGGCCCTGGCAGAGCAGGTATACATGGACTGGTACGAGAAGTTCCAGGACAGGCTCAA  
CAAGAAGTGGTACTCCTGACAGGCGAGACCAGCACAGACCTGAAGCTGCTGGGCAAAGGGAACATTATCATCAG  
CACCCCTGAGAAGTGGGACATACTTTCCCGGCGATGGAAGCAGCGCAAGAACGTGCAGAACATCAACCTCTTCGT



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**FIGURE 820B**

GGTGGATGAGGTCACCTTATCGGGGGCAGAAATGGGCCTGTCTTAGAAGTGATCTGCTCCCGAATGCGCTACAT  
CTCCTCCCAGATTGAGCGGGCCATTTCGATTGTGGCACTCAGCTCTTCGCTCTCCAATGCCAAGGATGTGGCCCCA  
CTGGCTGGGCTGCAGTGCCACCTCCACCTTCAACTTCCATCCCAATGTGCGTCCCGTCCCTTGGAGCTGCACAT  
CCAGGGCTTCAACATCAGCCATACACAAACCGCCTGCTCTCCATGGCCAAGCCTGTGTACCATGCTATCACCA  
GCACTCGCCCCAAGAAGCCTGTCTATTGTCTTTGTGCCGTCTCGCAAGCAGACCCGCTCACTGCCATTGACATCCT  
CACCACCTGTGCAGCAGACATCCAACGGCAGAGGTTCTTGCAGTGCACCGAGAAGGATCTGATTCCGTACCTGGA  
GAAGCTAAGTGACAGCACGCTCAAGGAAACGCTGCTAAATGGGGTGGGCTACCTGCATGAGGGGCTCAGCCCCAT  
GGAGCGACGCCTGGTGGAGCAGCTCTTCAGCTCAGGGGCTATCCAGGTGGTGGTGGCTTCTCGGAGTCTCTGCTG  
GGGCATGAACGTGGCTGCCACCTGGTAATCATCATGGATACCCAGTACTACAATGGCAAGATCCACGCCTATGT  
GGATTACCCCATCTATGACGTGCTTCAGATGGTGGGCCACGCCAACCGCCTTTGCAGGACGATGAGGGGCGCTG  
TGTCAATCATGTGTGTCAGGGCTCCAAGAAGGATTTCTTCAAGAAGTTCTTATATGAGCCATTGCCAGTAGAATCTCA  
CCTGGACCACTGTATGCATGACCACTTCAATGCTGAGATCGTCACCAAGACCATTGAGAACAAGCAGGATGCTGT  
GGACTACCTCACCTGGACCTTTCTGTACCGCGCATGACACAGAACCCCAATTACTACAACCTGCAGGGCATCTC  
CCATCGTCACTTGTTCGGACCACTTGTGAGAGCTGGTGAGCAGACCCTGAGTGACCTGGAGCAGTCCAAGTGCAT  
CAGCATCGAGGACGAGATGGACGTGGCGCCTCTGAACCTAGGCATGATCGCCGCTACTATTACATCAACTACAC  
CACCATTGAGCTCTTCAGCATGTCCCTCAATGCCAAGACCAAGGTGCGAGGGCTTATCGAGATCATCTCCAATGC  
AGCAGAGTATGAGAACATTCCCATCCGGCACCATTGAAGACAATCTCCTGAGGCGAGTTGGCTCAGAAGGTCCCCCA  
CAAGCTGAATAACCCCTAAGTTCAATGATCCGCACGTCAGAACCAACCTGCTCCTGCAGGCTCACTTGTCTCGCAT  
GCAGCTGAGTGCTGAGTTGCAGTCAGATCAGGAGGAAATCCTTAGTAAGGCAATCCGGCTCATCCAGGCCTGCGT  
GGATGTCCTTTCCAGCAATGGGTGGCTCAGCCCTGCTCTGGCAGCTATGGAACCTGGCCAGATGGTCACCCAAGC  
CATGTGGTCCAAGGACTCATACCTGAAGCAGCTGCCACACTTCACCTCTGAGCATATCAACGTTGCACAGACAA  
GGGAGTGGAGAGTGTTTTTCAGACATCATGGAGATGGAGGATGAAGAACGGAACGCGTGTGCTTACAGTGAAGCAG  
CCAGATTGCAGATGTGGCTGCGCTTTTGTAAACCGCTACCCTAATATCGAACTATCTTATGAGGTGGTAGATAAGGA  
CAGCATCCGAGTGGCGGGCCAGTTGTGGTGTGGTGCAGCTGGAGCGAGAGGAGGAAGTCACAGGCCCTGTGAT  
TGCGCTCTCTCTTCCCGCAGAAACGTGAAGAGGGCTGGTGGGTGGTGATTGGAGATGCCAAGTCCAATAGCCTCAT  
CTCCATCAAGAGCGTGACCTTGCAGCAGAAGGCCAAGGTGAAGTTGGACTTTGTGGCCCCAGCCACTGGTGGCCA  
CAACTACACTCTGTACTTTCATGAGTGACGCTTACATGGGATGTGACCAGGAGTACAAATTCAGCGTGGATGTGAA  
AGAAGCTGAGACAGACAGTGATTGAGATTGAGTCTGAGGCATTTACTTTTGGGTAAAGGAGAGTTGAGCCTGAA  
TTAGGAATGTGTACATTGTAGGAATCCTGGTTGTGGGGACCAGGTCTGTGGGCCTCAGGTCTGGCCAGCCAGGGC  
TGGTGCTGTCCCGCCTACCTCCACTTCCTTTCCCTTGCTCACTCTGGATCCAGTGACAGCAGGTGTGATGGGT  
AAGCATAAATCATATATAGCATTTTTCAGGCATGTTCTGTTAGTCTGACATTCTAATAAAAAATAAT  
TTGTAGAAACC

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**FIGURE 821**

MADVARSLOEYKANSNLVLQADRSIDRTRRDEPTGEVLSLVGKLEGTRMGDKAQRTPQMQEERRAKRRKRD  
EDRHDINKMKGYTLLSEGIDEMVGIIYKPKTKETRETYEVLLSFIQAALGDQPRDILCGAADEVLAFLKNEKLRD  
KERRKEIDLLLGQTDTRYHVLVNLGKKITDYGGDKETIQNMDDNIDETYGVNVQFESDEEEGEDVYGEVREEAS  
DDMEGDEAVVRCITLSANLVASGELMSSKKKDLHPRDIDAFWLQRQLSRFYDDAIVSQKKADEVLEILKTASDDR  
ECENQIVLLLGFNFTDFIKVLRQHRMILYCTLLASQAQSEAEKERIMGKMEADPELSKFLYQLHETEKEDLIREE  
RSRRERVQRSMDDTLEMDLDQGGELAPRQVLDLEDLVFTQGSFHMANKRCQLPDGSRFRQRKGYEEVHVPAL  
KPKPFGSEBQLLPVEKLPKYAQAGFEGFKTLNRIQSKLYRAALETDENLLCAPTGAGKTINVALMCMLEIGKHI  
NMDGTINVDDFKIIYIAPMRSLVQEMVGSFGKRLATYGITVAELTGDHQLCKEEISATQIIIVCTPEKWDIITRKG  
GERTYTQLVRLIILDEIHLHDDRGVLEALVARAIRNIEMTQEDVRLIGLSATLPNYEDVATFLRVDPAGKLFY  
FDNSFRPVPLEQTYVGITEKKAIKRFQIMNEIVYEKIMEHAGKNQVLVHVSRKETGKTARAIKDMCLEKDTLGL  
FLREGSASTEVLRTEAEQCKNLELKDLPYGFAIHAGMTRVDRTLVEDLFADKHIQVLVSTATLAWGVNLPALT  
VVIKGTQVYSPEKGRWTELGAIDILQMLGRAGRPQYDTKGEGILITSHGELQYVLSLLNQQLPIESQMVSKLPDM  
LNAEIVLGNVQNAKDAVNWLGYAYLYIRMLRSPTLYGISHDDLKGDPLDQRRDLVHTAALMLDKNNLVKYDKK  
TGNFQVTELGRIASHYYITNDTVQTYNQLKPTLSEIELFRVFSLSSEFKNITVREEEKLQKLLERVPPIVKE  
SIEEPSAKINVLLQAFISQLKLEGFALMADMVYVTSAGRLMRAIFEIVLNRGWAQLTDKTLNLCKMIDKRMWQS  
MCPLRQFRKLPEEVVKKIEKKNFPERLYDLNHNEIGELIRMPKMGKTIHKYVHLFPKLELSVHLQPIRSTLKV  
ELTITPDFQWDEKVGSSAEAFWILVEDVDSEVILHHEYFLKAKYAQDEHLITFFVPVFEPLPPQYFIRVVS DRW  
LSCETQLPVSFRHLILPEKYPPPTLELQLPVSALRNSAFESLYQDKFPFFNP IQTQVFNTVYNSDDNVFVGA  
PTGSGKTICAEFAILRMLLQSSEGRVCYITPMEALAEQVMDWYEFQDRNLKVVLLTGETSTDLLKLGKGNII  
ISTPEKWDILSRRWKQRKNVQINLFFVDEVHLIGGENGPVLEVICSRMRYISSQIERPIRIVALSSSLNAKDV  
AHLGCSATSTFNFHPNVRPVPLELHIQGFNISHTQIRLLSMAKPVYHAITKHSPKPVIVFVPSRKQTRLTAID  
ILTTCAADIQRQRFHLCTEKDLIPYLEKLSDSLKETLLNGVGYLHEGLSPMERRIVEQLFSSGAIQVVVASRSL  
CWGMNVAAHLVIMDTQYNGKIHAIVDYPIYDVLMVGHANRPLQDDEGRVCIMCQGSKKDFFKKFLYEPLPVE  
SHLDHCHMDHFAEIVTKTIENKQDAVDYLTWTFLYRRMTQNPNYNLQGISHRHLSHLSSELVEQTLSDLEQSK  
CISIEDMDVAPLNLGMIAAYYYINYTTIELFSMSLNAKTKVRGLIEIISNAEYENIPIRHHEDNLLRQLAQKV  
PHKLNNPKFNDPHVKTNLLQLAHLRMLQSAELQSDTEEILSKAIRLIQACVDVLSNGWLSPALAAMELAQMVT  
QAMWSKDSYKQLPHFTSEHIKRCTDKGVESVFDIMEMEDEERNALLQLTDSQIADVARFCNRYPNIELSYEVVD  
KDSIRSGGPVVVLVQLEREEVTGPVIAPLFPQKREEGWVVGDAKSNLSISIKRLTLQQAQKVKLDFVAPATG  
AHNYTLYFMSDAYMGCDQEQYKFSVDVKEAETDSDSD

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**FIGURE 822**

GTTTCCATCCCTCCTCTGGAGGCTTTTGAAGTCACCGGGAGACAGATGTGCTCTGTGGCAGGCAGGGGAGTGGGG  
GTGCTCAGGCACCTTGGGAGGTCTGGGAGCTCCTCAGTGTGACCGCTGGGACCCACCAGGACTTTTTCCTTTGTCA  
GAAGCCTTTGGTTGCTTTGCTGCTCTGCATGTGTCACTGTGGAGGGGCAATAGAGCAAGGCCTTACATGGCATGG  
TCATTTCTCGGGCCAGGAGGCTTAGAGGCCTGCCCCTGGCGCTCAAGTATTGAACCAGAACCATGGGGTGGCAC  
TGAAGCCTCCTCACCACATCATGATAAATAACGGGGACATTACAGAGCAGGCACCTGTTTCCTCAGTCCATGGCT  
GAGTACATCACCGGTGTTTTCTCTCTTATTCTCCATCAAGCCTAAAAGGAATCTCTATTGGAGATACTGCCAT  
TAGTGTTCCCTTTTATAGGTGAGGAACAGGCATAGAGGGTTCCCCAGTTGAACCAACTGATAAATAGTAGAACT  
TGGATTTTAATTCACTCTTGATGCCAGGGATAAGGCTCTTACTTTCTACCTTAGGCTATTTCTAGGAAACGCAGG  
AGAGTGTTGAAGGGGCAGAGAAAGGGATCCAGTTCCCTTTCTGTCCCGCATCCTAGTCCCTGAGAAGCAAAGAAGA  
ATGTGTGGCTTCTTTGCTTTGCTTTTGTGTGTCATCCACACATCTCCAGGGGACCTGGGCTCTTGATCTTGGCC  
TCTTCCCCCTTTAACTGTTAAGTGGGAGCAGGTAAGGGGGTACAGTAGGGCTGGCCTGGAGTTAGAGGCTTGGATG  
CCTTAGCTCCTCTGTCTGCACTCCAGAACTGCCTGACTTCATTTTCGTATGTTGTCTTTGTTTGGACAATTGATC  
CATGTCCCAGTCCGTCTCTTCTTCTTCTTGATACTTACACTGCTTCTTTCTGTTGGTTTCCAGTGTTTAACACT  
GTATACAACAGTGACGACAACGTGTTTGTGGGGGGCCCCACGGGCAGCGGGAAGACTATTTGTGCAGAGTTTGCC  
ATCCTGCGAATGCTGCTGCAGAGCTCGGAGGGGCGCTGTGTGTACATCACCCCATGGAGGCCCTGGCAGAGCAG  
GTATGACGTGGCGCTGTGTGTCATGTGAATTTCCCAAGAAGCATTTTCATCTGTGATTCCGTATGAAGGCTTTCTAAG  
CCCTGAAATTTGCAGGGTCATTTCTCAGTTTGTGTATTAAAGAAAAGCTGCCCCAGCCAAGCGTGGTGGCTCAC  
GCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCAGATCTCCGGAGATCAGGAATTGAGACCAGCCTGGCC  
AACATGGTGAAACCCTGTCTCTACTAAAAATACAGAAATTAGCTGGGCGTGGTGGTGTGCGCCTGTAATCCCAGC  
TACTTGGAAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGGAGGTTGCAGTGAGCCAAGTTCGCACCACT  
GCACTCCAGCCTGGGCAACAAGAGCGAGACTTCATCTCA

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**FIGURE 823**

GC GGAAGGCGCGGGAGCTT GCGT GCTGCTGGGCTGAGCTGTCTGCTCGTTTCTGTCCGCGCGCCCTGCATCCC  
GGCCCCGGGCGCCCCGCTGGAGGTCGCGGAGGAGCCACAGGGCTGACTGGTCTGCTGCCCCGGGCCCCAGGAGTGCCT  
GGTGTAGCAGTCGCGGAGCCATCCC GGCGTCTGCTGCCATGACCGACTCTCCCCCTCAGAGGAGACTCTTCTCTCAG  
CGGTGGCTGCAGAGACAGATGAGCGGCGGGCTCCTGGCCGCGGGACCGTGAGACGGGTTCGTGGCCGGCCATTTAG  
GGGACGCTGCGACCACCGCTGCGCCCCCTCCGACTGGTTCTTGGGCCCCGGAAGCTCGCGGCGGGGCCCTGCG  
GGAGGCGGCATGCTCCCGCGAGGCTGCTGGCCGCTGGCTGGCGGGGACGCGGGGCGGGGGCCCTGCTGGCGCTT  
CTGGCCAATCAGTGCCGCTTCGTACAGGGCTGCGCGTGCGGCGCGCGCAGCAGATCGCGCAGCTCTACGGCCGC  
CTCTACTCCGAGAGCTCACGCCGCTTCTCCTCGGCCGCTCTGGCGCCGGCTGCACGGCCGCTCTGGCCATGCC  
TCTGCCTTGATGGCGCGTTAGCCGGCGCTCTTCGTTTGGGACGAGGAGAGGATCCAGGAGGAGGAGTTGCAGAGA  
TCTATTAATGAGATGAAGCGTTTGAAGAAATGTCAAATATGTTTCAGAGCTCTGGAGTCCAGCACCACCTCCA  
GAACCAAAAGCCCAAACAGAAGGGAATGAAGATTCAGAGGGCAAGAGCAACGTTGGGAAATGGTGTGGATAAG  
AAACACTTTTAAGCTGTGGCGGCGCCCAATTACAGGCACCCACCTTTACCAGTACCGAGTTTTTGGAACTACACA  
GATGTGACACCTCGGCAGTTCTTCAATGTTTACGTGGACACAGAGTATAGAAAAAATGGGATGCCCTGGTAATC  
AAGCTGGAGGTGATTGAGAGGGATGTGGTTAGTGGTTCCGAGGTTCTTCACTGGGTAAACCATTTTCTTATCCA  
ATGTACTCACGGGATTATGTTTTATGTTCCGGCGGTATAGTGTGGATCAGGAAAACAATGATGGTGTGGTGTG  
CGTGCTGTGGAGCATCCGAGTGTGCCAGAGTCTCCAGAATTCTGTCAGGGTCAGATCATATGAATCCCAAATGGTT  
ATCCGTCCCCACAAAGTCATTTGATGAGAATGGCTTTGACTACTTACTAACATACAGTGACAATCCCCAAACGGTG  
TTTCTCTGCTACTGTGTTAGTTGGATGGTTTTCCAGTGGCATGCCAGATTTCTTGAGAAGCTGCACATGGCCACT  
CTGAAAGCCAAGATATGGAGATTAAAGTAAAGGACTACATCTCAGCTAAGCCTCTGGAAATGAGTAGTGAAGCC  
AAGGCCACCAGCCAGTCTCTGAGCGAAAGAACGAGGGCAGCTGTGGCCCTGCTCGGATTGAGTATGCTTGACAG  
GCTTTTGGGATAAGAAGGGACAAGGTGCTTCTAGCCCTGTCTCAGTCCGTATCACTCTGCTGTAGAAGGGGGACA  
TGCCACATGTATTAGAAGGCATCTGCTGTAACTTCCAGTGCAAGATAATTCAATAACTGATGTCCCATTTCATTC  
AGAGCCCCATTATGCTCTTATCAAAACAGAAGAAGGTACATTTGTGGGAGTGTGTATATTCTCAGGCCAACTG  
TTTTGAAATTCGGTATCTCACTGAGCTAATCTGGAACAAACCTCTCACCTCAGGCCAGAAGGGGATGACCTCCAT  
TTGCTTCTCTGAGTAGTTTCTCTGCTGACATTCCAAATCCCACCATCGATTGTGCAGCGCTTTGGATTTCCTTC  
AGTTCTCCAGGTCCACCTGGAAGTATAGTTGGCCAGTTGAGTCTCTCAAATGAGGGGCTACTGGGAGTGCTCTT  
GGTAACAATCATGATGTGAATGGGTGTGAACGATACTTGGCTATGTTAAGTGCCTTGTCCGACCTTGCTTTTAT  
CTCTAGAGACATGAAGTTATTATTAATTTTTTTTTTTTAAAGTAGAGATGGAGTTTCACTCTGTTTCCGAGGT  
GGTCTTGAACCTCTGGGCCATGCCCTGGCCAGGGACATGAATTTGTACAAAGAAATTTCCCTCCCTGCACAA  
TATCACCCATTGACTACCTTATCCAAAGCAAGTTTCTGTGAATCGGCCAGTTCTTCTATATTTCATTGGATCAT  
TGCCCTCCTTCTAACCTTCCCCATTTACCAAGAACTGGGAGACTAATCCTTTTAGATAGTAGCTTTTGTATGC  
TCAAAACATCACATTTAAATTTAGTTTAAAAATTTTTTAACTTTTGTGTCAAATAGGAGTTGAGGAATTGAGCAG  
GATTCTACCCTAGTCCGATTGTATAGAAAACACCATTTTGATTGAGGTATTATTTTTCATATTTCAGGTTTACT  
TGTTCTTTTTCAGAAGGCTAAAGTCAGAGGAATGGGGGCTGGGCCACTCCCTTGAGCTCTCAGATCTACAGACAA  
GCTGTGTGAATGCATAGATGTAATCTTGTCTCAAATACTAATACAGTGGAGATTGGGTTTATGTTACCATTAAGT  
TCCTCTAAAAAGTTTTTCTTCTCTCTTCAGAGCCAAAATAAAAGTGAACCTACACTGTTTCAAGATAAGGTACAAAT  
CTGATGCTGTGAGTTTGACCGAGCTGGTTTTGCTTATGGTCATGCTGCAATTTGTTAGAATAATAGGGATCAAGT  
TTTAAATCCTCCTCCTTCCCTTTTTTCTGGAGTCTTGAGGGCCAGAGTTTTTGTGTTTTGTTTTGTTTT  
CCTGCTTGCTACTGTTTTGTGGTGTGAAAAGTGGTTTAAACCTGAGACTAACTTAAACACTTCCCTGACCTTCT  
TGTGCTGTTTCAATTTTGTGCCAAGGAAGTAGCTGCCCCAGTGTATGCTTGCCTTCTCCGCGTCATTGTTGGA  
AGAGGAGAGATGCATCGAGCAGTCCCAGCTGCTTTTCACTTACTTCTTCTTTCCAGGACCTGACAGAAGTCA  
GGGAAGAGTCCCTGGGTATGTCCAACTTAGCACCTGCAATTTGTTGGGATGTGGATGGATGTGTGCATAAGAGA  
GAGAGAGAATATGTGTGTGTGTGTGCGTCTGCGAGCGCACACATGCACAAGTGCGAAGGAGTTGCGGTTGC  
TCCATGTTCTGACTTAGGGCAATTTGATTCTGCACTTGGGGTCTGTCTGTACAGTTACTCATGTGATTGTAATGA  
TTTCACTCCTAACTGTGACATTTTATCAAATGTGTGAATAAATACATAAAGATTGGTAC

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**FIGURE 824A**

CGCGCTTAGGGATCCGGCCGTGGCCGAGCGCGCGGCCGTAAGACCGCGGGTGACTAGCATGCAGATACCCATGCT  
CTGACTTTCTGCCCCCTCCACTGACATGGCCACCGGGGTGGGAGAGGGACTTCCAGACTTCAGCTCGACGCATG  
GGCACCTCGCTGCTCTTCCAGCTTTCAGTGCATGAACGGGAGCTGGACCTGGTTTTCTGGATCATAGCTATGCC  
AAGCCTTGGAGTGCCACCCAGATGCCAGTAGTGCCCGCCCCACCCGCATGCTCTTGTCACTCCCCGGGGCAG  
CACGAAAGTACCATTGAATCAGACGTCCCAATAGATGTGGAGACGGTCACATCAACGCCTATGCCACTCTATGAC  
AATCAGAAGGCACGCAGCGTGATGAATGAGTGTGAACGGCATGTCATCTTGGCAGGACTGATGCAGATGCCCTT  
CCTCCACCAGAGGACTGGGAGGAGCATGTCAACAGGACTGGCTGGACAATGGCCAGAACAAAGCTATTCAACAAG  
ATCCTCAAAGCCCTGCAGTCTGACCGGCTTGCCCGCTTGGCCAACGAAGGGGCTTGTAAATGAGCCAGTGTGCGC  
CGTGTGCTGTGGACAAGTGTGCAAGGAGAGTGCGGCAGGCTCTGGCAAGTGTGAGCTGGGATACCAAGTGTATC  
CAGTGGCTGCACACCACCCTTGTGGAGACCTTGAGTCTGCCCATGTGTCAGCCTACCTGGATGCTTTGCAGACG  
CTGAAGGGGAAGATCCCAACCTTGATTGACCGGATGCTTGTGTCTATCCAACACAAAGACTGGGGCTGCAGGAGCT  
GAGGCCTTGTCTCTCTACTGAAGAGGCCCTGGGACCCTGCTGTGGGTGTGCTTTCTATAACAAACCAAGCAAA  
CTCCCTGGCTCTCCGCTGATTCTCATCGCCTCCTCTGGTCCCTCCAGCTCTGTGTTTTCCCACTTCACGCCGCCAC  
CGCTTCTGGCAATCTCAGCTGTCTGCTTGGGCAAGGTATCCCTGTAGCCACCCATCTGCTGAACAATGGCAGT  
GGGGTAGGAGTTCTACAGTGTCTCGAGCATATGATTGGGGCAGTGAGAAGCAAAGTGTGAGATTACAGCCAT  
TCCCCACACAAACCCATTATCTTGATTGGCTGGAACACAGGAGCTTTGGTGGCCTGTCTGTGTGATGATGGAG  
TATGTCACTGCAGTTGTCTGCCTTGGGTTTCTCTGCTTACTGTGGATGGCCCCAGAGGGGATGTAGATGATCCC  
CTCTTGATATGAAGACTCCAGTCTCTTGTCTATTGGTCTGAGAATTCCCTTCAATGTACCCCTGAAGCCATGGAG  
GACTTCCGGGAGAAGATTGAGCTGAGAACAGCTTGGTGGTGGTTGGGGGAGCTGATGACAATCTCAGAATAAGC  
AAAGCAAAGAAGAAATCAGAAGGGTTGACTCAGAGCATGGTGGACAGATGATTAGGATGAGATTGTGGACTTT  
CTGACTGGAGTGTCACTCGTGTGAGGGTCACATGGGCTCTGAACTCGGGATCAGGATGCTGAGAAGAAGAAG  
AAGCCCCGCGATGTGGCCCGCAGAGACTTGGCCTTTGAAGTCCCCTGAGCGGGCAGTCGACCTGCCTCCCCAGCT  
GCCAAGCTGCCCGCCTCACCTCAGGCTCAGAGGATCTTCCAGTGTGTCCAGCAGCCCCACCTCCAGTCCCAAG  
ACCAAAGTGACCACAGTGACCTCTGCCCAGAAGTCCAGTTCAGATTGGAAGTTCTCAGCTGCTGAAGAGACATGTG  
CAGCGGACAGAAGCTGTGCTGACCCACAAACAAGCTCAAGCACAGTTTGCTGCTTTTCTGAAACAAAATATGCTG  
GTGAGGAAAGCTCTTCTCTGGCACCTCCTCTGCTCTTTGTTCCATTTCATCAGAACCACCAGAGGAAGGA  
GAGAAAGAGGATCTTAGGGTTAGCTGAGCGACACCATCCCTCGAGTCCCCTTCTGGCAGTAAGACCTCCAAA  
CGACCGAAGATCAAGGTGTCCCTTATCTCCCAAGGGACACAGCTGGAGGGCCTTGTGCTCCTTCCCAAGGAAGT  
GCTCCAGAAGCTGCAGGTGGGAAGCCCATCCATGACACTGGGGCAGGCTTCAGCAGGGGCCAAGGAGCTCACA  
GGACTTCTCACCACAGCCAAGTCCAGTTCTTCTGAAGGTGGAGTCTCAGCCAGCCAGTCCCTTCAGTGGTCTCC  
AGCAGCACTGCACCCAGTGCTTGCACACACTGCAGAGCGCCTGGTGGCCACATCTCCTGGCAGTCCCTCCCA  
GGGGCCACATCAGCCAGCAGCCTCCTCCAAGGCTCAGCTTTCAGCTTGCAGGATATCAGCAGCAAGACCTCTGGC  
CTTCCAGCAAATCCCTCCCCAGGACCAGCCCCACAGGCTTGAAGGTCCCCACCACCATTACTCTGACACTTCGTG  
GCCAGCCGAGCAGGATCACTACACTGAGCCCTATGGGCTCAGGAGCAGCCCCATCCGAGGAGTCTCTTCCAGG  
TGTGCCCTCCAGCTCACAGCGCCTGCCTCCAGCACCCTGAAGATGCTGTGTGATATGTCTCTTACCAAGTTG  
GTGATGGCTGCCTCATGGTGGGCCCTGGACAGGTGTGTGGTCTGCTGAGCTGTCCACGTGTGGAAGACCTGTT  
TAAGACAGTCATTTTTGCCTCTCCGCCAACTGTCTTCAGAGAAACCATTAGGTTAGGTGATACGGTGCCAGCAAG  
GGAAGCACCATCGTCCAGGATCTGCAAATCTGGTTCTGGGAACCCAGACTCCTCAGCAGATCTGGCTGTACAT  
GGATCAGAACCACCTTCTTCCCCCGCTTAAGCTGTGGTTGACCCAAGGGTCAGCATATAGGACTGCCTGCTGCAT  
TTAATGAAGGTGTTTTCTTTTGAAGTCTGTGCTACCCTCTGCGCCTAGTTGGGAGGAGACATCCATCTGGTCTG  
GGATTTGGGAGTTAGAATGGAAGCTCTTTGTAAAGACTGGAGTCATCTGGCCTGCCAACTGGTGGTTCAGA  
GCCGGACGGGCTTGTTTTGGACATCACTGTTGCCTTCACTCAGCAGCCACGGGAGAGTGTCCCCATGCAACTCC  
ACCTTAGAAACACGTCAGATACTGAGTAGCTTGTGACTCCTGGAACTTCTGGTTTTTGTAGTATCATAATG  
AAGGCAAAGAGTAAGTGTGATCTTTTACGCTCTTGTACTTACTCTAGATGTTGGGAGCAGTGGTTGCCAGG  
TGAAACCTGGGCCCTTTGTCTTTTACCATGCTTTGGGCAGTTTCTGTATCCAGAGAGTCCGCAGGTTTCAGATA  
AGCTGAAGAAGAGTAATAGAACAGCAAAGGAAGTGGCTGAAGGATGTGCTAGTAAGCCCTGTGGTTTGTGCTTA  
GGTCTCTGCTCTGCTACCCAAGGAAGTGGTGGTTACAGTGGAGATAAAAAGAAGAATTTGCCAAGTCAGAGAAGA  
AACCCCAACCCCGGAAATCCTCTGTCTCCAGTCTCTGGAGGTGAAGCAGGGACAATAAGCTAAGGTAGTATCTT

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**FIGURE 824B**

GGCCATCCCAGGAACTTGTGGCATTAGGACGATGAAGGCCATGCTTCAGTGTTTTTCGTTTCTATTTTCATGAGAC  
TTTTTGTCTTCCTGCTTACAAGTGGGAAGATGATTGACAGTGACTCTACTATGCAGGGCTGTTGGTACCAACCTG  
AGCCCTATAGGTGGCAGTCCCTGGAGAAGTGGTCACAGAAGATGGAGCTCTGATCCCTGCTTACCTCTTCAAA  
CACTTGTGTGCAAAGATAGTTTTAGATTTGGTTTAGAAGCTATCCTCCAGAACAGGCTCCCATACTTAGAATGTT  
TCTAGTTAAGGTAATAAATTAGGCAACCCAAGTGTGACTCCACTCAAGTGTCTTTTTCTGTAGGCAGGAAGGGCC  
CACAACATGGCTTAAATGTAGTCCATGGTTCTGGCCACAGTACAGTGTGTATCTATACCAGGTCACCTGTGTT  
CAATCTGGGAGCCTTCCTGGCCAGTCTGAGTGGCAGCCAGAAGGGAGCTCATAGTGTCTAGGAGTCTCAGGCAAG  
GTAGGTCAGGGTACTGTGGGCAGGGGGGATGTGTGTGATAGGAGAGGGTACCCTAAACCCCATACCTTCCCTCCC  
TGACCTGAAAAGCTGATCTCAACAGGGATTACACAGAATTAGGCTGTGTTTTTGCATTAGCTGGTAGGTGACTT  
TCTCAAATTTCTTAAATTCAGAAAGTATTTAGTAAACTTGAGGAAGGTATGAAATCTGGAGGAGGCATCCAGGAC  
CCAGGGGTTTGATAGCTTTACAGGTAGGATCATACCACACCAAAAGAGCAGTGGACAATAAGACTATATGAGCTA  
TATGAAGCTTTTAGGAATCATTTAGGACAGACAGAGCCCTAAACAACCCATTATGACTTAAGTTGTTGGCTCAG  
TGTATGCTGGGGACAAAGAAAACTAACAAGCCGACCTGCCTTTATGATAAATTCTAGTGTGCTTACAAGGGATG  
ACTTCTGAGGTGTGATCTGTCCACCTTGAAGAACTCCACAACCTGAAGAAGGGGAGCTGTGAGAACGTGGATTGT  
TCTACAACCTTGCACAGGGTAACAGAGGAAGTGGCTGAGGCCTAGAGTCACGTTTTCCAGTTCCTTCGCAAACTA  
TATTTCTTGGAACGCGAAAGGAAGCTTTACCTATTTTATAGAAGACCTGGAATCCATAACCTCAGAAGGCAATAT  
TATTGATAGAAAATGTGGAAGGATCAGGAAGTTCTTAGATTCTTGGATGACAGATGCATGTTGATGCCCTATGGA  
GATGTCCTTGTGTTTGGAGGTCACTGAGGTAGGAAGACCTGTCTACTCTTGGTTTCACCACTAGAACAGTCTTGG  
GCTGGATGGGTTATAGAGCTGAGCGGCTGTGATGGTTCTGTTTTTACATTAAACAAAACAATTAACCAACCAAA  
AAC

**FIGURE 825**

[illegible]

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**FIGURE 826**

MYLSAICEYQLEEIQRVFEGPYKEYHEEAQKWDRYTDVPSPRPGSCINNWHRHGYTSSLELPDNILNFVKKHP  
LMEEQVGPRWSRPLLVKGTNFTHLVADRVTLGDLGATYTVLFIDTGDGWLLKAVSLGPVWHLIEELQLFDQEPMR  
SLVLSQSKKLLFAGSRSQVLVQLPVADCMKYRSCADCVLARDPYCAWSVNTSRCVAVGGHSGSLLIQHVMTSDTSG  
ICNLRGSKKVRPTPKNITVVAGTDLVLPCHLSSNLAHARWTFGGRDLPAEQPGSFLYDARLQALVVMQAQPRHAG  
AYHCFSEEQGARLAAEGYLVAVVAGPSVTLEARAPLENLGLVWLAVVALGAVCLVLLLLVLSLRRRLREELEKGA  
KATERTLVYPLELPKEPTSPFFRPCPEPDEKLWDPVGYYYSDGSLKIVPGHARCQPGGGPPSPPPGIPGOPLPSP  
TRLHLGGGRNSNANGYVRLQLGGEDRGGLGHPLPELADELRRKLQQRQPLPDSNPEESSV



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**FIGURE 827**

CGGAAGTTTTGCTGCTAGTCGCGGACGCAATGGCTTCAAGGTTACTTCGCGGAGCTGGAACGCTGGCCGCGCAGG  
CCCTGAGGGCTCGCGGCCCCAGTGGCGCGGCCGCGATGCGCTCCATGGCATCTGGAGGTGGTGTTCCTACTGATG  
AAGAGCAGGCGACTGGGTTGGAGAGGGAGATCATGCTGGCTGCAAAGAAGGGACTGGACCCATACAATGTACTGG  
CCCCAAAGGGAGCTTCAGGCACCAGGGAAGACCCTAATTTAGTCCCCTCCATCTCCAACAAGAGAATAGTAGGCT  
GCATCTGTGAAGAGGACAATACCAGCGTCGTCTGGTTTTGGCTGCACAAAGGCGAGGCCCAGCGATGCCCCCGCT  
GTGGAGCCCATTACAAGCTGGTGCCCCAGCAGCTGGCACACTAGGCACCTGCACTAAATTACTCAAAATGTGCTG  
TAAAGTTTCTTCTTTCCAGTAAAGACTAGCCATTGCATTGGCTCCTTCTCCATAAAAAAAAAAAAAAAAAA

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**FIGURE 828**

MASRLRGAGTLAAQALRARGP SGAAAMRSMASGGGVPTDEEQATGLEREIMLAAKKGLDPYNVLAPKGASGTRE  
DPNLVPSISNKRIVGCICEEDNTSVVFWLHKGEAQRCPRCGAHYKLVPPQLAH

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**FIGURE 829**

TTGCAGCCGCCGGCAGCTACTGCAAGGCAAAAGCCGGAGTGGACGTGTCTTTTGAAACTGCTGCTCTTTCACTTC  
TCAGGCGTCACCGAGAGCTCAGCACCCAGGCTGAACTCTGTACCATTTGGAAGAATGGAAGCTGATGCATCTGTT  
GACATGTTTTCCAAAGTCCTGGAGCATCAGCTGCTTCAGACTACCAAAGTGGTGAAGAACATTTGGATTCTGAA  
ATTCAAAAAGTGGATCAGATGGATGAGGATGAATTGGAACGCCTTAAAGAAAAGAGACTCCAGGCACTAAGGAAA  
GCTCAACAGCAGAAACAAGAATGGCTTTCTAAAGGACATGGGGAATACAGAGAAATCCCTAGTGAAGAGACTTT  
TTTCAAGAAGTCAAGGAGAGTGAAAATGTGGTTTGCCATTTCTACAGAGACTCCACATTGAGGTGTAAAATACTA  
GACAGACATCTGGCAATATTGTCCAAGAAACACCTCGAGACCAAATTTTTGAAGCTGAATGTGGAAAAAGCACCT  
TTCCTTTGTGAGAGACTGCATATCAAAGTCATTCCCACACTAGCACTGCTAAAAGATGGGAAAACACAAGATTAT  
GTTGTTGGGTTTACTGACCTAGGAAATACAGATGACTTCACCACAGAACTTTAGAATGGAGGCTCGGTTCTTCT  
GACATTCTTAATTACAGTGGAAATTTAATGGAGCCACCATTTCAGAACCAAAAGAAATTTGGAACAACTTCACA  
AAGCTGGAAAAGAAAAGTATCCGAGGAAAGAAATATGATTGAGACTCTGATGATGATGATGAGCTCAATAATTCTT  
TGTAATTTGCTTTTTTTTTCTGCTTCAGATTTAAATGTGTTTTTAAATTTCTATTAATGTCTATACATTGGTCA  
CCTAAATACTCATATTCTCGAGTTTATACAGTTGTATCACATCGAAAAGTGTCTTACTGTTTTCTGTGTGGCC  
ATCATGTTTAAAGTTGAGGAAAAGTCAAGTTCTTAAATATCTGGGAAGGGTCTGGATTCTCTATTTTTGAGATTGA  
CTTTATCACAATATGATTCTTACATCTTTATACCATTTCACAATTGTGTTTTAGATCTACAGAGTTAGAAATTCGA  
AACTATTCCAGGACTAATTCTTAATCGGCATTATTTATACAAGAGGTCAAGTAACATTTACTAGCGCAATACTG  
CACTTGTAATGAATTATAAACGCTCTTCTGGAATATATTTAAATAACCATTAAAGAACTGCTTATTCATTCTGG  
ACACTGCATGTTGATGTTGAATCACTGATGCCAGCAGAAAGCTATTTTGATTGTGAACATACTGCCTTATTTA  
AAGGGTCCTGATTGCTTGTATTTTAAGACATTCATTAAGAAAGAAACCAGGAAACACTTTTGAAATAACAGCATAA  
GGAACCTTCACTGTCTCTGCTCAATAAAATACCTGTAAGTGGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAA

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**FIGURE 830**

MEADASVDMFSKVLEHQLLQTTKLVEEHL DSEIQKLDQMD EDELERLKEKRLQALRKAQQQKQEWLSKGHGEYRE  
IPSERDFFQEVKESENVVCHF YRDSTFRCKILDRHLA ILSKKHLET KFLKLNVEKAPFLCERLHIKVIPTLALLK  
DGKTQDYVVGFTDLGN TDDFTTETLEWRLGSSDI LNYSGNLMEPPFQ NQKKFGTNFTKLEKKTIRGKKYDSDD  
D

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**FIGURE 831A**

CGCGGGTCTGTGGAGAGCCGGGTGCGAGCGGCGGCAGCACGAGGGGAAAAGAGCTGAGCGGAGACCAAAGTCAGC  
CGGGAGACAGTGGGTCTGTGAGAGACCGAATAGAGGGGCTGGGGCCACGAGCGCCATTGACAAGCAATGGGGAAG  
AAACAGAAAAACAAGAGCGAAGACAGCACCAAGGATGACATTGATCTTGATGCCTTGGCTGCAGAAATAGAAGGA  
GCTGGTGCTGCCAAAGAACAGGAGCCTCAAAAGTCAAAGGGAAAAAGAAAAAGAGAAAAAAAGCAGGACTTT  
GATGAAGATGATATCCTGAAAGAACTGGAAGAATTGTCTTTGGAAGCTCAAGGCATCAAAGCTGACAGAGAACT  
GTTGCAGTGAAGCCAACAGAAAAACAATGAAGAGGAATTCACCTCAAAGATAAAAAAGAAAGGACAGAAGGGC  
AAAAACAGAGTTTTGATGATAATGATAGCGAAGAATTGGAAGATAAAGATTCAAATCAAAAAAGACTGCAAAA  
CCGAAAGTGGAAATGTACTCTGGGAGTGATGATGATGATGATTTTTAACAACTTCCTAAAAAGCTAAAGGAAAA  
GCTCAAAATCAAATAAGAAGTGGGATGGGTGAGAGGAGGATGAGGATAACAGTAAAAAATTAAGAGCGTTCA  
AGAATAAATTCTTCTGGTGAAAGTGGTGATGAATCAGATGAATTTTGCAATCTAGAAAAGGACAGAAAAAAT  
CAGAAAAACAAGCCAGGTCTAACATAGAAAGTGGGAATGAAGATGATGACGCCTCCTTCAAATTAAGACAGTG  
GCCCCAAAAGAAGGCAGAAAAGAAGGAGCGCGAGAGAAAAAGCGAGATGAAGAAAAAGCGAAACTGCGGAAGCTG  
AAAGAAAAAGAAGAGTTAGAACAGGTAAAAAGGATCAGAGTAACAAAAGGAATCTCAAAGGAAATTTGAAGAA  
GAACTGTAAATCCAAAGTACTGTTGATACTGGAGTAATTCCTGCCTCTGAAGAGAAAGCAGAGACTCCCA  
GCTGCAGAAGATGACAATGAAGGAGACAAAAAGAAGAAAGATAAGAGAAAAAGAAAGGAGAAAAAGGAAGAAAA  
GAGAAAGAGAAGAAAAAGGACCTAGCAAAGCCACTGTTAAAGCTATGCAAGAAGCTCTGGCTAAGCTTAAAGAG  
GAAGAAGAAAGACAGAAGAGAGAAGAGGAAGAACGTATAAACCGGCTTGAAGAATTAGAAGCCAAGCGTAAAGAA  
GAGGAACGATTGGAACAAGAAAAAGAGAAAGGAAAAAGCAAAAAGAAAAAGAAAGAAAGAACGCTTGAAAAAA  
GAAGGGAAACTTTTAACTAAATCCAGAGAGAAGCCAGAGCCAGAGCCGAAGCTACTCTTAACTGCTACAAGCT  
CAGGGTGTTGAAGTGCCATCAAAGACTCTTTGCCAAAGAAGAGGCCAATTTATGAAGATAAAAAAGAGGAAAAAA  
ATACCACAGCAGCTAGAAAGTAAAGAAGTGTCTGAATCAATGGAATTATGTGCTGCTGTAGAAGTTATGGAACAA  
GGAGTACCAGAAAAAGGAGACACCACCTCCTGTTGAACCAGAAGAAGAAGATACTGAGGATGCTGGATTG  
GATGATTGGGAAGCTATGGCCAGTGATGAGGAGACAGAAAAAGTAGAAGGAAACAAAGTTCATATAGAAGTAAAA  
GAAACCCCTGAAGAGGAGGAGGAGGAGGAAGAAGAGGAAGAAGAAGATGAAGAAAGTGAAGAAGAGGAGGAAGAG  
GAGGGAGAAAGTGAAGGCAGTGAAGGTGATGAGGAAGATGAAAAGGTGTCAGATGAGAAGGATTGAGGGAAGACA  
TTAGATAAAAAGCCAAGTAAAGAAATGAGCTCAGATTCTGAATATGACTCTGATGATGATCGGACTAAAGAAGAA  
AGGGCTTATGACAAAGCAAAACGGAGGATTGAGAAACGGCGACTTGAACATAGTAAAAATGTAAACACCGAAAAAG  
CTAAGAGCCCCCTATTATCTGCGTACTTGGGCATGTGGACACAGGGAAGACAAAAATTCTAGATAAGCTCCGTCAC  
ACACATGTACAAGATGGTGAAGCAGGTGGTATCACACAACAAATTGGGGCCACCAATGTTCTCTTGAAGCTATT  
AATGAACAGACTAAGATGATTAAAAATTTTGATAGAGAGAATGTACGGATTCCAGGAATGCTAATTATTGATACT  
CCTGGGCATGAATCTTTCAGTAATCTGAGAAATAGAGGAAGCTCTCTTTGTGACATTGCCATTTTAGTTGTTGAT  
ATTATGCATGGTTTGGAGCCCCAGACAATTGAGTCTATCAACCTTCTCAAATCTAAAAATGTCCCTTCATTGTT  
GCACTCAATAAGATTGATAGGTTATATGATTGGAAGAAAGAGTCTGACTCTGATGTGGCTGCTACTTTAAAGAAG  
CAGAAAAAGAATACAAAGATGAATTTGAGGAGCGAGCAAAGGCTATTATTGTAGAATTTGCACAGCAGGGTTTG  
AATGCTGCTTTGTTTTATGAGAATAAAGATCCCCGACTTTTGTGCTTTTGGTACCTACCTCTGCACATACTGGT  
GATGGCATGGGAAGTCTGATCTACCTTCTTGTAGAGTTAACTCAGACCATGTTGAGCAAGAGACTTGCACACTGT  
GAAGAGCTGAGAGCACAGGTGATGGAGGTTAAAGCTCTCCCGGGATGGGCACCACTATAGATGTCATCTTGATC  
AATGGGCGTTTGAAGGAAGGAGATACAATCATTGTTCTGGAGTAGAAGGGCCATTGTAACCTCAGATTGAGGC  
CTCCTGTTACCTCCTCCTATGAAGGAATTACGAGTGAAGAACCAGTATGAAAAGCATAAAGAAGTAGAAGCAGCT  
CAGGGGGTAAAGATTCTTGGAAAAGACCTGGAGAAAACATTGGCTGGTTACCCCTCCTTGTGGCTTATAAAGAA  
GATGAAATCCCTGTTCTTAAAGATGAATTGATCCATGAGTTAAAGCAGACACTAAATGCTATCAAATTAGAAGAA  
AAAGGAGTCTATGTCCAGGCATCTACACTGGGTTCTTTGGAAGCTCTACTGGAATTTCTGAAAACATCAGAAGTG  
CCCTATGCAGGAATTAACATTGGCCAGTGATGATAAAAAAGATGTTATGAAGGCTTCAGTGATGTTGGAACATGAC  
CCTCAGTATGCAGTAATTTTGGCCTTCGATGTGAGAATTGAACGAGATGCACAAGAAATGGCTGATAGTTTAGGA  
GTTAGAATTTTGTGCGAGAAATTTATATCATTATTTTATGATGCCTTTACAAAATATAGACAAGACTACAAGAAA  
CAGAAACAAGAAGAATTTAAGCACATAGCAGTATTTCCCTGCAAGATAAAAAATCCTCCCTCAGTACATTTTAAAT  
TCTCGAGATCCGATAGTGATGGGGGTGACGGTGGAAGCAGGTGAGTGAACAGGGGACACCCATGTGTGTCCCA  
AGCAAAAATTTTGTGACATCGGAATAGTAACAAGTATTGAAATAAACCATAAACAAGTGGATGTTGCAAAAAAA

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**FIGURE 831B**

GGACAAGAAGTTTGTGTAAAAATAGAACCTATCCCTGGTGAGTCACCCAAAATGTTTGGAAGACATTTTGAAGCT  
ACAGATATTCTTGTTAGTAAGATCAGCCGGCAGTCCATTGATGCACTCAAAGACTGGTTCAGAGATGAAATGCAG  
AAGAGTGACTGGCAGCTTATTGTGGAGCTGAAGAAAGTATTTGAAATCATCTAATTTTTTCACATGGAGCAGGAA  
CTGGAGTAAATGCAATACTGTGTTGTAATATCCCAACAAAAATCAGACAAAAAATGGAACAGACGTATTTGGACA  
CTGATGGACTTAAGTATGGAAGGAAGAAAAATAGGTGTATAAAATGTTTTCCATGAGAAACCAAGAACTTACAC  
TGGTTTGACAGTGGTCAGTTACATGTCCCCACAGTTCCAATGTGCCTGTTCACTCACCTCTCCCTTCCCCAACCC  
TTCTCTACTTGGCTGCTGTTTTAAAGTTTGCCCTTCCCCAAATTTGGATTTTTATTACAGATCTAAAGCTCTTTC  
GATTTTATACTGATTAAATCAGTACTGCAGTATTTGATTAAAC

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**FIGURE 832**

CTTCCTTTCCAACCTTGGACGCTGCAGAAATGGCTCCCGCAAAGAAGGGTGGCGAGAAGAAAAAGGGCCGTTCTGCC  
ATCAACGAAGTGGTAACCCGAGAATACACCATCAACATTACAAGCGCATCCATGGAGTGGGCTTCAAGAAGCGT  
GCACCTCGGGCACTCAAAGAGATTGGGAAATTTGCCATGAAGGAGATGGGAACCTCAGATGTGCGCATTGACACC  
AGGCTCAACAAAGCTGTCTGGGCCAAAGGAATAAGGAATGTGCCATACCGAATCCGTGTGCGGCTGTCCAGAAAA  
CGTAATGAGGATGAAGATTCACCAAATAAGCTATATACTTTGGTTACCTATGTACCTGTTACCACTTCAAAAAAT  
CTACAGACAGTCAATGTGGATGAGAACTTAATCGCTGATCGTCAGATCAAATAAAGTTATAAAATTGC

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**FIGURE 833**

MAPAKKGGEKKKGRSAINVVTREY TINIHKRIHGVGFKKRAPRALKEIRKFAMKEMGTPDVRI DTRLNKAVWAK  
GIRNV PYRIRVRLSRKRNEDEDSPNKLYTLVTYVPVITTFKNLQTVNV DEN



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**FIGURE 834**

ATGCCCCGGCGGAGGGGCGAGCGCGGCGTCTGGCCGGCTTCTACCGCCGCGGAGCAAAGAGGGTCCCGGGAAGCG  
GCAGGGTCGGCGTCCAGGAGCGGGCTTCGGGGGCTCCGGCGGCGGCAGAGGCGGAGCAAGCGGGCCCCGGGTCCGGG  
AGCGGAGGCCCTGGGGGCCCCGCGGGCAGGATGAGCTTGACCCCGAAGGAGCTCTCGAGCCTGCTGAGCATCATA  
TCGGAGGAGGCGGGCGGCGGCAGCACCTTCGAGGGCCGTGTCCACCGCCTTCCACCACTACTTCAGCAAGGCCGAC  
CACTTCCGCTGGGCTCGGTGCTCGTCAATGCTGCTCCAGCAGCCCGACCTGCTGCCTAGCGCGGCGCAGCGCCTC  
ACGGCGCTCTACCTGCTCTGGGAGATGTACCGCACCGAGCCGCTGGCCGCCAACCCCTTCGCCGCCAGCTTCGCG  
CACCTGCTCAACCCCGCGCGCCCGCCCCGCGGCGGCCAGGAACCCGACCGCCCTCCGCTCTCAGGATTTTACCT  
CCTATAACTCCACCAGAAAAGTTTTTCTTTCCAGCTGATGTGGCACCCCCACGGGAACCTCTTCAAAAAGACG  
CCTCGCCAGATTGCACTGATGGACGTTGGAAACATGGGCCAGTCTGTGGACATTAGTGGGCTTCAGTTAGCCTTG  
GCCGAACGCCAATCTGAATTGCCAACGCAAAGCAAAGCGAGCTTCCCCAGTATTCTCAGTGACCCAGACCCGGAT  
TCTTCTAATTCTGGATTTGACAGCTCAGTTGCCTCTCAGATCACAGAAGCTTTAGTCAGCGGACCAAAGCCACCT  
ATTGAAAGCCATTTTCGACCAGAGTTTATTCTGCCACCGCCTCCACTCCACATTTGTGAGGATGAACCTGCTTGG  
CTAAACCCACGCGAGCCTGACCACGCGATCAGTGGGATAAATCGATGTGTGTTAAGAATAGCACTGGTGTGGAG  
ATCAAACGAATAATGGCCAAAGCCTTCAAAGCCCTTATCCTCTCCCCAACAAACACAGCTACTTGGTGAGTTG  
GAAAAAGACCCCAAACCTTGTCTACCATATTGGCCTCACCCAGCCAAACTTCTGACCTTGTGGAAAACAACCTT  
TTAGTCGCTATAGAAATGTTGCTGAAATTAATGCAGTCAAGCCAGATCACTGAGTATTCTCTGTCTGGTCAAT  
ATGGACATGTCTTTACATTCAATGGAAGTTGTAAATCGACTAACTACAGCTGTTGATCTACCTCCTGAATTTATT  
CACCTTTATATATCAAATTGCATCTCTACTTGTGAACAGATTAAAGGATAAATATATGCAGAATCGGTTGGTGCGT  
CTTGTGTGTGTGTTTCTCCAATCCTTGATCCGTAACAAAATTATTAATGTACAGGATTGTTTATAGAAGTGCAG  
GCATTCTGTATTGAATTCAGTAGGATACGAGAAGCTGCTGGTCTTTTCCGGTTGTTGAAGACATTGGATACTGGG  
GAAACACCTTCTGAGACCAAATGTCAAAATAA

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**FIGURE 835**

MPGGGASAASGRLLTAAEQRGSR EAAGSASRSGFGGSGGGRGGASGPGSGSGGPGGPAGRMSLTPKELSSLLSII  
SEEAGGGSTFEGGLSTAFHHYFSKADHFRLGSVLVMLLQQPDLLPSAAQRLTALYLLWEMYRTEPLAANPFAASFA  
HLLNPAPPARGGQEPDRPPLSGFLPPI TPPEKFFLSQLMLAPPREL FKKTPRQIALMDVGNMQSVDISGLQLAL  
AERQSELPTQSKASFPSILSDPDSDSSNSGFDSSVASQITEALVSGPKPPIESHFRPEFIRPPPPLHICEDELA W  
LNPTEPDHAIQWDKSMCVKNSTGVEIKRIMAKAFKSPLSSPQQTQLLGELEKDPKLVYHIGLTPAKLPDLVENNP  
LVAIEMLLKLMQSSQITEYFSVLVNMDMSLHSMEVVNRLTTAVDLPPEFIHLYISNCISTCEQIKDKYMQNRLVR  
LVCVFLQSLIRNKIINVQDLFIEVQAF CIEFSRIREAAGLFRLLKTLDTGETPSETKMSK

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**FIGURE 836**

AGGGTACGGGCCGGGACCGCCGAGCCCCGGGGCGGGGGCACGGCAACCGCGAGGCCTGGGGGCGCCCCCCCCCG  
CGCCCCACGCCCGGTGCCAGCGAGCCGAGGCGTGATCTCTTATATGGTCAAATGACACGGCGGGGTTTCTCGA  
GGGCGGGAGCTGCGCAGCGCTCCACTCGGCCGGCAGCGGAGCCGAGCCACCAGCCGCCCGCGCCCTCCAGCCCC  
GTCCGGGAGTCCCCGGCCCCGCTGCGGTGCCGTGAGTACCTCCAACCCCTGCGCCCCGGAGGGAGGCCGAGGGGC  
TTAGCCACCAGGGCTCGGAAGTGGGGGCCGAATCCGGTGCGAGACCCAAGGAGAGGGGAGCAGAGCCGGAGTTGG  
GGAGACTGTGGCTGAAAACGTGTCTTCTGGAGACTAGGCTGGCATTGACTTTGGGACGGAGTCTCGCTTG  
TCGCCCAGGCTGGAGTGCAGTGGCAGATCTCAGCTCACTGCAAGCTCTACCTCTTGGTTCAGGCCATTCTCCTG  
CCCCAGCCTCCAAGTAGCTGGGACTACAGGTTGCTGAAAAGCCAGGAGTCAAAATGACTGAGCGCTTTGACTGC  
CACCATTGCAACGAATCTCTCTTTGGCAAGAAGTACATCCTGCGGGAGGAGAGCCCCCTACTGCGTGGTGTGCTTT  
GAGACCCTGTTTCGCCAACACCTGCGAGGAGTGTGGGAAGCCCATCGGCTGTGACTGCAAGGACTTGTCTTACAAG  
GACCGGCACCTGGCATGAAGCCTGTTTCCACTGCTCGCAGTGCAGAACTCACTGGTGGACAAGCCCTTTGCTGCC  
AAGGAGGACCAGCTGCTCTGTACAGACTGCTATTCCAACGAGTACTCATCCAAGTGCCAGGAATGCAAGAAGACC  
ATCATGCCAGGTACCCGCAAGATGGAGTACAAGGGCAGCAGCTGGCATGAGACCTGCTTCATCTGCCACCGCTGC  
CAGCAGCCAATTGGAACCAAGAGTTTCATCCCCAAGACAATCAGAATTTCTGTGTGCCCTGCTATGAGAAACAA  
CATGCCATGCAGTGCGTTTCAGTGCAAAAAGCCCATCACCACGGGAGGGGTCACTTACCGGGAGCAGCCCTGGCAC  
AAGGAGTGCTTCGTGTGCACCGCCTGCAGGAAGCAGCTGTCTGGGCAGCGCTTCACAGCTCGCGATGACTTTGCC  
TACTGCCTGAAGTCTTCTGTGACTTGTATGCCAAGAAGTGTGCTGGGTGCACCAACCCCATCAGCGGACTTGGT  
GGCACAAAATACATCTCCTTTGAGGAACGGCAGTGGCATAACGACTGCTTTAACTGTAAGAAGTGCTCCCTCTCA  
CTGGTGGGGCGTGGCTTCTCACAGAGAGGGACGACATCCTGTGCCCCGACTGTGGGAAAGACATCTGAATTCAA  
CACAGAGAAGTTGCTGCTTGTGATCTCACACACAGATTTTATGTTTTCTTCTCACCCAGGCAATCTTGCCTTC  
TGGTTTCTTCCAGCCACATTGAGACTTTCTTCTAGTGCTTTTCAGTGATACTCACGTTTGCTTAAACCCCTTAGT  
GCTTTGTGATAGTTCAGTCCCAGGGAAGAGAAAACCTCGCCCTAGGCCCTAGGTGGGAAGATGGTTTGAAATTTT  
TGTAATCGAGTAAGGCACCCAAATGTAAAAATCCTTTGAATGATGCCTTTATAAATCTTCTCTCACGTGCT  
ATTTAAGTGCAATTACATATGTCACGAACTTGAAAGTTTCTAAACTCAATAAGGTAATGACCAGTTGTTATTT  
ACAGCTCTGTAACCTCCCGTTGCGTCAAGTCTAAACCAAGATTATGTGACTTGCAATAAAGTTATTCAGAACAGA  
AAAAAAAAAAAAAAAAA

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**FIGURE 837**

MTERFDCHHCNESLFGKKYILREESPYCVVCFETLFANTCEECKPIGCDCKDLSYKDRHWHEACFHCSQCRNSL  
VDKPFAAKEDQLLCDYCSNEYSSKCQECKKTIMPGTRKMEYKGSSWHETCFICHRCQQPIGTSFIPKDNQNF  
VPCYEKQHMQCVQCKKPITGGVITYREQPWHKECFVCTACRKQLSGQRFRTARDDFAYCLNCFCDLYAKKCAGCT  
NPISGLGGTKYISFEERQWHNDCFNCKKCSLSLVGRGFLTERDDILCPDCGKDI

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**FIGURE 838**

AGTCTTCTGGCCCCGAGAGGGAGAGGTGGGGATAGGACCTTCCTTTAGTCCCCTCCGTAGTGGAACGAAGGATTCTTTATGGTCATCTGTGGTGTTTCATTTTCGTAAAGAAGCATCTGCAGGGTAAGAAGGAAAAACGTCCACCTTGCAAA  
TATATCCCAGGCACATGCCTCCTGAGAAGTGACCCCTCCTCCCTCCGCCTCCCCGGGCACGTCTGGGGCTTCTCCAGTCTCCCGCTCCTGGGACCAGGCAGAGATCCCGGCGTGGGCAGACCCCTGCCACCGCGCCCAGGCCTCGTCC  
GAAACTCGCGCCCGAGAGCCCACGCCGGAGGCGACGCTCCCGATAACTACTGTGCTCCCAAGACCCGGAGGGCACGAAGAAAGGAGCCCTGGCAAACAAAGGGTTGCTGAAAAGCCAGGAGTCAAAATGACTGAGCGCTTGACTGCCAC  
CATTGCAACGAATCTCTCTTTGGCAAGAAGTACATCCTGCGGGAGGAGAGCCCTACTGCGTGGTGTGCTTTGAGACCCCTGTTGCGCAACACCTGCGAGGAGTGTGGGAAGCCCATCGGCTGTGACTGCAAGGTACCTGCTGCGGGCCTC  
TGCGGGTCCCCGGCGCTCCCTAGGAAACACGGGTTTCTCTGTGGTTTGTGCTGAAGCCCTGATCCACCACTGAA  
GTCTGTCTCTTGAGCCCCCTCTGAGGGCGTGGACCCTGCGTGTAGCCTTTCGGAAGCTTCTTCCCTCTAGCGAA  
TGTGATCTCTGCCCACAAGCACTGGGTGAGGGCCTTGCCAGGACTTTTGTGCTTAGTATCTCTAAGTACATTTTC  
TGTATTCTAGCAATTAGTGCCCTTATCTAACTACCCAGCTGCCTACCAATACTGGAACCTTCTTAAGGGTGGTGC  
TCTCTTCTCTTGTCTGTTTGGCCCGTGGTGAGTAACGTGGAGCAGGTGCTGTGCTCAGTCAATATTGATGAAT  
GAATGTGTACATGAGAGAACCAGAGTTGGTTCCTGGATAAATGGGCACATAAAAGCACAAAGTCCTTGG

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**FIGURE 839**

AAGGACTCCATGAAAGATGACAGAAGAAGTTATTGTGATAGCCAAGTGGGACTACACCGCCCAGCAGGACCAGGA  
GCTGGACATCAAGAAGAACGAGCGGCTGTGGTTGCTGGACGACTCCAAGACGTGGTGGCGGGTGAGGAACGCGGC  
CAACAGGACGGGCTATGTACCGTCCAACCTACGTGGAGCGGAAGAACAGCCTGAAGAAGGGCTCCCTCGTGAAGAA  
CCTGAAGGACACACTAGGCCTCGGCAAGACGCGCAGGAAGACCAGCGCGCGGGATGCGTCCCCACGCCCAGCAC  
GGACGCCGAGTACCCCGCCAATGGCAGCGGCGCCGACCGCATCTACGACCTCAACATCCCGGCCTTCGTCAAGTT  
CGCCTATGTGGCCGAGCGGGAGGATGAGTTGTCCCTGGTGAAGGGGTGCGCGCTCACCGTCATGGAGAAGTGCAG  
CGACGGTTGGTGGCGGGGAGCTACAACGGGCAGATCGGCTGGTTCCCTCCAACCTACGTCTTGAGGAGGTGGA  
CGAGGCGGCTGCGGAGTCCCCAAGCTTCCTGAGCCTGCGCAAGGGCGCCTCGCTGAGCAATGGCCAGGGCTCCCG  
CGTGCTGCATGTGGTCCAGACGCTGTACCCCTTCAGCTCAGTCACCGAGGAGGAGCTCAACTTCGAGAAGGGGGA  
GACCATGGAGGTGATTGAGAAGCCGGAGAACGACCCCGAGTGGTGGAAATGCAAAAATGCCCGGGGCCAGGTGGG  
CCTCGTCCCCAAAACCTACGTGGTGGTCCCTCAGTGACGGGCCTGCCCTGCACCTGCGCACGCCCCACAGATAAG  
CTACACCGGGCCCTCGTCCAGCGGGCGCTTCGCGGGCAGAGAGTGGTACTACGGGAACGTGACGCGGCACCAGGC  
CGAGTGCGCCCTCAACGAGCGGGGCGTGGAGGGGCGACTTCCTCATTAGGGACAGCGAGTCCTCGCCCAGCGACTT  
CTCCGTGTCCCTTAAAGCGTCAGGGAAGAACAACACTTCAAGGTGCAGCTCGTGGACAATGTCTACTGCATTGG  
GCAGCGGCGCTTCCACACCATGGACGAGCTGGTGGAACTACAAAAGGCGCCCATCTTCACCAGCGAGCACGG  
GGAGAAGCTCTACCTCGTCAGGGCCCTGCAGTGACGGCGCCCCGGCCCCACACTCGCCTCCCGGGCCCCACGGTG  
GAGCTGCCCGCCCGGCCTGTGGCAGAGGCTCCTCCCGCGGGGACGGCCCCGACGGCTTCTCTG

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**FIGURE 840**

MTEEVIVIAKWDYTAQQDQELDIKKNERLWLLDDSKTWVRVNAANRIGYVPSNYVERKNSLKKGSLVKNLKDIL  
GLGKTRRKSARDASPTPSTDAEYPANGSGADRIYDLNIPAFVKFAYVAEREDELSLVKGSRTVMEKCSDGWWR  
GSYNGQIGWFPSNYVLEEVDAAAESPFLSLRKASLSNGQGSRLHVVTLYPFSSVTEEEELNFEKGETMEVI  
EKPENDPEWWKCKNARGQVGLVPKNYVVVLSLSDGPALHPAHAPQISYTGPSSSGRFAGREWYYGNVTRHQAECALN  
ERGVGDFLIRDSESSPSDFSVSLKASGKNKHFKVQLVDNVYICIGQRRFHTMDELVEHYKKAPIFTSEHGEKLYL  
VRALQ

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**FIGURE 841**

TGGAACCATGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGTCCAAGTACAAGCCCTTGCACCTGCC  
TCTCCAGGATGTCTACAAAATTGGTGGTATTGGTAGTGTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACC.  
TGGTATGGTGGTCACCTTTGCTCCAGTCAACGTTACAACAGAAGTAAATCTGTCGAAATGCACCATGAAGCTTT  
GAGTGAAGCTCTTCCTGGGGACAATGIGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTCTGGCAA  
CGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGTTTCACTGCTCAGGTGATTATCCTGAACCA  
TCCAGGCCAAATAAGCACTGGCTATGCCCTGTATTGGATTGCCACACGGCTCATATTGCATGCAAGTTTGCTGA  
GCTGAAGGAAAAGATTGATCACCCTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTCTTCTTGGGTTGCTTTG  
CTGTTTCGTGATATGAGACAGATAGTT



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**FIGURE 842**

AAAAGCCAAAATGGGAAAGGAAAAGACTCATACCAACATTGTCGTCATTGGACACATAGATTCCGGGCAAGTCCAC  
CACTACTGGCCATCTGATCTACAAAGGCGGTGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGC  
TGAGATGGGAAAGGGCTCCTTCAAGTATGCCTGGGTCTTGGATAAACTGAAAGCTGAGTGTGAACATGGTATCAC  
CATTGATACCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCGTTGATGCCCCAGGACACAGAGA  
CTTCATCAAAAACATGATTACAGAGACATCTCAGGCTGACTGTGCTGTCTGATTGTTGCTGCTGGTGTGGTGA  
ATTTGAAGCTGGTATCTCCAAGAATGGGCAAACCCAAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACA  
ACTAATTGTTGGTGTTAACAAAATGGATTCTACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAACTACAAA  
ATTGGTGGTATTGGTAGTGTTCCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCTGGTATGGTGGTCACCTTT  
GCTCCAGTCAACGTTACAACAGAAGTAAATCTGTGCAAATGCACCATGAAGCTTTGAGTGAAGCTCTTCCTGGG  
GACAATGTGG

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**FIGURE 843**

AACAGATCTTCATGAATGTCGCTATCTTTGAGGATGAAGTTTTTGCTGGAGTTACCACACACCAGGAACCTCTTTC  
CACACAGCCTGCTGAGTGTGATTGCCAACTTCATCCCTTTCTCTGATCTCAACCAGAGTCCACGGAACATGTACC  
AATGCCAGATGGGTAAGCAAACATATGGGCTTTCCACTTCTCACTTATCAAGACCGATCGGATAACAACTGTATC  
GTCTTCAGACTCCTCAGAGTCCCTTGGTGAGACCTCCATGTATGATTATTATGACATGGATAACTATCCAATTG  
GGACCAATGCCATCGTTGCTGTGATTCTTACACTGGCTATGATATGGAAGATGCCATGATTGTGAATAAGGCCT  
CTTGGGAACGAGGCTTTGCCCATGGAAGTGTCTACAAGTCTGAGTTCATAGACCTCTCTGAAAAAATTAAACAAG  
GAGATAGTAGCCTGGTGTGTTGGCATCAAACCTGGTGACCCACGCGTTCTGCAGAAGTTAGATGACGATGGATTGC  
CGTTTATAGGAGCAAACTGCAGTACGGAGATCCGTATTACAGCTACCTCAACCTCAACACCGGGGAAAGTTTTG  
TGATGTACTATAAGAGTAAAGAAAAATTGTGTTGTGGATAACATCAAAGTGTGCAGTAATGACACTGGGAGTGGA  
AATTCAAGTGTGTTTGCATCACTATGAGAGTGCCTCGGAACCCAACTATCGGAGATAAATTTGCCAGTCGCCATG  
GGCAGAAGGGCATTTTAAGCAGATTGTGGCCGGCTGAGGACATGCCTTTTACTGAGAGTGGGATGGTCCAGACA  
TTCTGTTCAATCCCCATGGTTTTCCATCCCGCATGACCATTGGGATGTTAATTGAGAGTATGGCCGGGAAGTCTG  
CAGCTTTGCATGGTCTCTGCCATGATGCTACACCTTCATCTTCTCAGAGGAGAACTCGGCCTTAGAATACTTTG  
GTGAGATGTTAAAGGCTGCTGGCTACAATTTCTATGGCACCGAGAGGTTATATAGTGGCATCAGTGGGCTAGAAC  
TGGAAGCAGACATCTTCATAGGAGTGGTTTATTATCAGCGCTTACGCCATATGGTCTCAGACAAATTTCAAGTAA  
GGACAACCTGGAGCCCGAGACAGAGTCACCAACCAGCCTATTGGGGGAAGAAATGTCCAGGGTGGAATCCGTTTTG  
GGGAGATGGAACGGGATGCGCTTTTAGCTCATGGTACATCTTTTCTCCTTCATGACCGCCTCTTCAACTGCTCAG  
ATCGGTCGGTAGCCCATGTGTGTGAAGTGTGGCAGTTTACTCTCTCCACTGTTGGAGAAGCCACCCCTTCTTGG  
TCTGCCATGCGCAACAGAAAATACAACCTGTACTCTGTGTAGTCTGCGAGTGACACTATCGATACTGTTTCTGTGCCT  
TATGTTTTTTCGGTATTTTGTAGCTGAACCTGGCAGCTATGAACATCAAAGTGAAACTGGATGTTGTTTAACTTGAT  
GTTGACCTTTTGGATTAAAGGGGACTATCAGATTAAAGCAAAATGTAATTTTAAATCAATGAAGATATCATTACCA  
GGTTACTCTTGAGATTTTCAACGGTGTAGAAGTCTCAACCAAGACCTGAAAACCAAGTATGCAAGGTTTCTGA  
ATCTCTCTGGTAGATTAACTATTGACAATGATTTTCTGTTATCTTTGTTCAAAAAGTTCATGTCTTCTCAAAATA  
TGAAATATTGATAAATGGAAGAGCATACGGTGACAAGTCTCCTTTCCAACCCAGGTTCCCTACACCCTGCTCTC  
AGCAGGCAGTGAGTGTACACACCTGTTAATCCATCTTGAGCAGGACAGTACTATACAAATAGAATGCAAGCTGT  
AATGTAATTTTATATTTTCTTATAGCCACGTTGAAGTAAAAACAAACAGGTACAGTGTTTTTTACCAGCTTTATA  
GAAGTACAGTTGTTACATATTTAATGAATACAATTTGATGGGTCTGACTATATGCACACACCTTTGATACCATCA  
CCACAATCAGGGTAATAAACATACCTGTCTCCACAAGTTTCTCCTGCCCCCTTGTTTTTTGCTTTTGGTT  
GCTGTTGAGTTTTTGTGTTTGTCTTCTGTGGTAAGAACACTTAACTCAAGACCTACCCTCTTAACAAATCTTTAAG  
TGCACGATATAGTATTGTTAATTCAGGCACCATGTTGTACAACAGATCTTTAGACCTTACTTGTCTGCATAAC  
TGAAGCTTTATACCTGTTGAACAACCTCTCCATTTCCCTGGCCCCCTAGCAACCACCTTCTACCCTGTTTCTATGA  
GTTTGACTATTACAGATATCTCATATAGTGGGATCATGCAATATTTGTCCTGTGACTGGCTTATTTCACTTAGCA  
TAGTGAAATAAGATTATCCATTTTGAAGCCAGGCATGGTGTGTGCATCTATAGTCCCTGCTATTTGAGAGGC  
TGAGGTGGGAGGATCATTGAGTGCAGGAGTTCAAGGACAGCCTGGGTAATATAGGAAGACCCTGTCTTGAAGAC  
CCTGACCTCAAGTGATCCACCCACCTCGGCCTCCGAAAGTGTAGGATTACAGGTGTGAGCCACTGTGCCTGGCC  
TCCGGTGAGTATTTTATATTTAGTCTACACTTCCATACTTGGCTTTTTTCTGCTTTTATGTTGATCTGCTTTTCA  
AGCAGTGTGTAGAGTGCCACTTATGTTTTCTTTCTGTGTACAGTATTTTATTGTATGGATTTACCATCCCTGT  
GTATTTAAGTTGTTCCATTCTTTGGCCATTATAACTTTTTCTGCAAATATTCTGGTGACTTATCTTTGGCCATT  
ATAAAGTGTGATAATAAAAAAAAAAAAAAAAAA

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**FIGURE 844**

MNVAIFEDEVFAGVTTHQELFPFHSLLSVIANFIPFSDLNQSPRNMYQCQMGKQTMGFPLLTQDRSDNKLYRLQT  
PQSPLVRPSMYDYYMDNYPIGTNAIVAVISYTGDMEDAMIVNKASWERGFAHGVSVKSEFIDLSEKIKQGDSS  
LVFGIKPGDPRVLQKLDDGLPFFIGAKLQYGDPIYSYLNLTGESFVMIYKSKENCVVDNIKVCSNDTGSGKFKC  
VCITMRVPRNPTIGDKFASRHGQKGILSRLWPAEDMPFTESGMVPDILFNPHGFPSRMTIGMLIESMAGKSAALH  
GLCHDATPFIFSEENSALEYFGEMLKAAGYNFYGTERLYSGISGLELEADIFIGVYYQRLRHMVSDKFQVRTTG  
ARDRVNTQPIGGRNVQGGIRFGEMERDALLAHGTSFLLHDLRFNCSDRSVAHVCEVWQFTLSTVGEATPFLVCHA  
QQKIQLYSV

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**FIGURE 845**

GAGCTGTCCCCGGTGCCGCCGACCCGGGCCGTGTGCCCGTGGCTCCAGCCGCTGTGCCTCGATCTCCTCGTCTC  
CCGCTCCGCCCTCCCTTTTCCCTGGATGAACTTGCGTCCTTTCTTTCTCCGCCATGGAATTCTGCTCCGTGCTT  
TTAGCCCTCCTGAGCCAAAGAAACCCAGACAACAGATGCCCATACGCAGCGTATAGCAGTAACCTCCAGCTCG  
GTTTCTGTGCCGTAGTTTACAGTATTTAATTTTATATAATATATATTATTTATATAGCATTTTTGATACCTCAT  
ATTCTGTTTACACATCTTGAAAGGCGCTCAGTAGTTCTCTTACTAAACAACCACTACTCCAGAGAATGCAACGC  
TGATTACCAGTACTACAGCTGCTACCGCCGCTTCTGGTCTTTGGTGGACTACCTATGGATGCTCATCTGGGCT  
TCATTATTGCATTTGTCTTGGCATTCTCCGTGGGAGCCAATGATGTAGCAAATTCCTTTGGTACAGCTGTGGGCT  
CAGGTGTAGTGACCCTGAAGCAAGCCTGCATCCTAGCTAGCATCTTTGAAACAGTGGGCTCTGTCTTACTGGGGG  
CCAAAGTGAGCGAAACCATCCGGAAGGGCTTGATTGACGTGGAGATGTACAACCTCGACTCAAGGGCTGCTGATGG  
CCGGCTCAGTCAGTGCTATGTTTGGTCTGTCTGTGGCAACTCGTGGCTTCGTTTTGAAGCTCCCTATTTCTG  
GAACCCATTGTATTGTTGGTGCAACTATTGGTTTCTCCCTCGTGGCAAAGGGGCAGGAGGGTGTCAAGTGGTCTG  
AACTGATAAAAAATTGTGATGCTTGGTTCTGTGCCCACTGCTTCTGGAATTATGCTGGAATTTTATCTTCC  
TGGTTCGTGCATTTCCTCCATAAGGCAGATCCAGTTCCTAATGGTTTGCAGCTTTGCCAGTTTTCTATGCCT  
GCACAGTTGGAATAAACCTCTTTCCATCATGTATACTGGAGCACCGTTGCTGGGCTTTGACAACTTCCTCTGT  
GGGGTACCATCCTCATCTCGGTGGGATGTGCAGTTTCTGTGCCCTTATCGTCTGGTCTTTGTATGTCCAGGA  
TGAAGAGAAAAATTGAACGAGAAATAAAGTGTAGTCCTTCTGAAAGCCCCCTAATGAAAAAAGAATAGCTTGA  
AAGAAGACCATGAAGAAACAAAGTTGTCTGTTGGTGATATTGAAACAAGCATCCTGTTTCTGAGGTAGGGCTG  
CCACTGTGCCCTCCAGGCTGTGGTGGAGGAGAGAACAGTCTCATTCAAACTTGGAGATTTGGAGGAAGCTCCAG  
AGAGAGAGAGGCTTCCAGCGTGGACTTGAAAGAGGAAACCAGCATAGATAGCACCGTGAATGGTGCAGTGCAGT  
TGCCTAATGGGAACCTTGTCCAGTTCAGTCAAGCCGTGAGCAACCAAATAAACTCCAGTGGCCACTACCAGTATC  
ACACCGTGCATAAGGATTCCGGCCTGTACAAAGAGCTACTCCATAAATTACATCTTGCCAAGGTGGGAGATTGCA  
TGGGAGACTCCGGTGACAAACCTTAAGGCGCAATAATAGCTATACTTCCTATACCATGGCAATATGTGGCATGC  
CTCTGGATTCAATCCGTGCCAAAGAAGGTGAACAGAAGGGCGAAGAAATGGAGAAGCTGACATGGCCTAATGCAG  
ACTCCAAGAAGCGAATTCGAATGGACAGTTACACCAGTTACTGCAATGCTGTGTCTGACCTTCACTCAGCATCTG  
AGATAGACATGAGTGTCAAGGCAGAGATGGGTCTAGGTGACAGAAAAGGAAGTAATGGCTCTCTAGAAGAATGGT  
ATGACCAGGATAAGCCTGAAGTCTCTCTCTCTCTCCAGTTCCTGCAGATCCTTACAGCCTGCTTTGGGTCAATCG  
CCCATGGTGGCAATGACGTAAGCAATGCCATTGGGCCTCTGGTTGCTTTATATTGGTTTATGACACAGGAGATG  
TTTCTTCAAAAGTGGCAACACCAATATGGCTTCTACTCTATGGTGGTGTGGTATCTGTGTTGGTCTGTGGGTTT  
GGGGAAGAAGAGTTATCCAGACCATGGGGAAGGATCTGACACCGATCACACCCTCTAGTGGCTTCAGTATTGAAC  
TGGCATCTGCCCTCACTGTGGTGATTGCATCAAATATTGGCCTTCCCATCAGTACAACACATTGTAAAGTGGGCT  
CTGTTGTGTCTGTTGGCTGGCTCCGGTCCAAGAAGGCTGTTGACTGGCGTCTCTTTGTAACATTTTATGGCCT  
GGTTTGTACAGTCCCCATTTCTGGAGTTATCAGTGCTGCCATCATGGCAATCTTCAGATATGTCATCCTCAGAA  
TGTAAGCTGTTTGAGATTAAATTTGTGTCAATGTTTGGGACCATCTTAGGTATTCCTGCTCCCTGAAGAATG  
ATTACAGTGTTAACAGAAGACTGACAAGAGTCTTTTATTTGGGAGCCAGAGGAGGAAGTGTACTTGTGCTAT  
AACTGCTTTTGTGCTAAATATGAATTGTCTCAAATTAGCTGTGTAAATAGCCCGGGTTCCACTGGCTCCTGCT  
GAGGTCCCCTTTCTTCTGGGCTGTGAATTCCTGTACATAATTTCTCTACTTTTGTATCAGGCTTCAATTCATT  
ATGTTTTAATGTTGTCTCTGAAGATGACTTGTGATTTTTTTTTCTTTTTTAAACCATGAAGAGCCGTTTGACA  
GAGCATGCTCTGCGTTGTTGGTTTACCAGCTTCTGCCCTCACATGCACAGGGATTTAAACAACAAAATATAACT  
ACAACCTCCCTTGTAGTCTCTTATATAAGTAGAGTCTTGGTACTCTGCCCTCCTGTCTAGTGGCAGGATCTA  
TTGGCATATTCCGGAGCTTCTTAGAGGGATGAGGTTCTTTGAACACAGTGAAAATTTAAATTAGTAACCTTTTTG  
CAAGCAGTTTATTGACTGTTATTGCTAAGAAGAAGTAAGAAAGAAAAGCCTGTTGGCAATCTTGGTTATTTCTT  
TAAGATTTCTGGCAGTGTGGGATGGATGAATGAAGTGAATGTGAACTTGGGCAAGTTAAGTGGGACAGCCTTC  
CATGTTCAATTTGTCTACCTCTTAAGTAATAAAAAGCCTACAGTTTTTAG

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**FIGURE 846**

MATLITSTTAATAASGPLVDYLWMLILGFIIAFVLAFSVGANDVANSFGTAVGSGVVILKQACILASIFETVGSV  
LLGAKVSETIRKGLIDVEMYNSTQGLLMAGSVSAMFGSAVWQLVASFLKLPISGTHCIVGATIGFSLVAKGQEGV  
KWSelikivMSWfVSPllSGIMSGILFFLVRAFILHKADPVPNGLRALPVFYACTVGINLFSIMYTGAPLLGFDK  
LPLWGTILISVGCAVFCALIVWFFVCPRMKRKIEREIKCSPSESPLMEKKNSLKEDHEETKLSVGDIENKHPVSE  
VGPA TVPLQAVVEERTVSFKLGDL EEAPERERLPSVDLKEETSIDSTVNGAVQLPNGNLVQFSQAVSNQINSSGH  
YQYHTVHKDSGLYKELLHKLHLAKVGDCMGDSGDKPLRRNNSYTSYMAICGMPLDSFRAKEGEQKGEEMEKLW  
PNADSKKRIRMDSYTSYCNVSDLHSASEIDMSVKAEMGLGDRKGSNGSLEEWYDQDKPEVSLLFQFLQILTACF  
GSFAHGGNDVSNAIGPLVALYLVDYDTGDVSSKVATPIWLLLYGGVGICVGLWVWGRRVIQTMGKDLTPITPSSGF  
SIELASALTTVIASNIGLP ISTTHCKVGSVSVSGWLRSKKAVDWRLFRNIFMAWFVTVPISGVISAAIMAIFRYV  
ILRM

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**FIGURE 847**

ACCAACCTCTTCGAGGCACAAGGCACAACAGGCTGCTCTGGGATTCTCTTCAGCCAATCTTCATTGCTCAAGTGT  
CTGAAGCAGCCATGGCAGAAGTACCTGAGCTCGCCAGTGAAATGATGGCTTATTACAGTGGCAATGAGGATGACT  
TGTTCTTTGAAGCTGATGGCCCTAAACAGATGAAGTGCTCCTTCCAGGACCTGGACCTCTGCCCTCTGGATGGCG  
GCATCCAGCTACGAATCTCCGACCACCACTACAGCAAGGGCTTCAGGCAGGCCGCGTCAGTTGTTGTGGCCATGG  
ACAAGCTGAGGAAGATGCTGGTTCCCTGCCCACAGACCTTCCAGGAGAATGACCTGAGCACCTTCTTTCCCTTCA  
TCTTTGAAGAAGAACCTATCTTCTTCGACACATGGGATAACGAGGCTTATGTGCACGATGCACCTGTACGATCAC  
TGAAGTGCACGCTCCGGGACTCACAGCAAAAAAGCTTGGTGATGTCTGGTCCATATGAACTGAAAGCTCTCCACC  
TCCAGGGACAGGATATGGAGCAACAAGTGGTGTCTCCATGTCCTTTGTACAAGGAGAAGAAAGTAATGACAAAA  
TACCTGTGGCCTTGGGCCTCAAGGAAAAGAATCTGTACCTGTCCTGCGTGTTGAAAGATGATAAGCCCACTCTAC  
AGCTGGAGAGTGTAGATCCCAAAAATTACCCAAAGAAGAAGATGGAAAAGCGATTGTCTTCAACAAGATAGAAA  
TCAATAACAAGCTGGAATTTGAGTCTGCCCAGTTCCCCAACTGGTACATCAGCACCTCTCAAGCAGAAAAACATGC  
CCGTCTTCTGGGAGGGACCAAGGCGGCCAGGATATAACTGACTTCACCATGCAATTTGTGTCTTCTTAAGAG  
AGCTGTACCCAGAGAGTCTGTGCTGAATGTGGACTCAATCCCTAGGGCTGGCAGAAAGGGAACAGAAAGGTTTTT  
TGAGTACGGCTATAGCCTGGACTTTCTGTGTCTACACCAATGCCCAACTGCCTGCCTTAGGGTAGTGCTAAGA  
GGATCTCCTGTCCATCAGCCAGGACAGTCAGCTCTCTCCTTTCAGGGCCAATCCCCAGCCCTTTTGTGAGCCAG  
GCCTCTCTCACTCTCCTACTCACTTAAAGCCCGCTGACAGAAACCACGGCCACATTTGGTTCTAAGAAACCTT  
CTGTCAATTCGCTCCACATTCTGATGAGCAACCGCTTCCCTATTTATTTATTTATTTGTTTGTGTTTATTCA  
TTGGTCTAATTTATTCAAAGGGGGCAAGAAGTAGCAGTGTCTGTAAGAGAGCCTAGTTTTTAATAGCTATGGAAT  
CAATTCAATTTGGACTGGTGTGCTCTCTTTAAATCAAGTCCTTAATTAAGACTGAAAATATATAAGCTCAGATT  
ATTTAAATGGGAATATTTATAAATGAGCAAATATCATACTGTTCAATGGTTCTGAAATAAACTTCTCTGAAG

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**FIGURE 848**

MAEVP ELASEMMAYYS GNEDDLFFEADGPKQMKCSFQDL DLCPLDGGIQLRISDHHYSKGF RQAASVVVAMDKLR  
KMLVPCPQTFQENDLSTFFPFIFEEPIFFDTWDNEAYVHDAPVRSINCTLRDSQQKSLVMSGPYELKALHLQGG  
DMEQQVVFMSFVQGEESNDKIPVALGLKEKNLYLSCVLKDDKPTLQLESVDPKNYPKKKMEKR FVFNKIEINN K  
LEFESAQFPNWYISTSQ AENMPVFLGGTKGGQDITDFTMQFVSS

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**FIGURE 849**

AGGCACCATGACTCCTGTGAGGATGCAGCACTCCCTGGCAGGTCAGACCTATGCCGTGCCCTCATCCAGCCAGA  
CCTGCGGTGAGAGGAGGCCGTCCAGCAGATGGCAGATGCCCTGCAGTACCTGCAGAAGGTCTCTGGAGACATCTT  
CAGCAGTGAGAGCGGCCCTTGCTGCGGCCAAAGAACATGGAAAAGCATGAGTGGGGTGATGTGTGCCTTAAAGCAT  
CAGACACTTGGGCCTCGGGCATCAGGAGCCAGCCACAGGGATGTCTGGGGAAATGGCGTTCCATGAGATGCAAGC  
ACACAAGAATGCACTTGGCACATCTGGGGAACAGCAGGCAGCTGATATCACTGGGCCCACCCTGCACCAGGGAGG  
ATGGAAGCAGGTAGAGCAGAGCCGGAGCCAGGTGCAGGCCATTGGAGAGAAGGTCTCCTTGGCCCAGGCCAAGAT  
TGAGAAGATCAAGGGCAGCAAGAAGGCCATCAAGGTGTTCTCCAGTGCCAAGTACCCTGCTCCAGAGCGCCTGCA  
GGAATATGGCTCCATCTTACGGGCGCCCAGGACCCTGGCCTGCAGAGACGCCCCCGCCACAGGATCCAGAGCAA  
GCACCGCCCCCTGGACGAGCGGGCCCTGCAGGAGAAGCTGAAGGACTTTCCTGTGTGCGTGAGCACCAGCCGGA  
GCCCAGGACGATGCAGAAGAGGGACTTGGGGGTCTTCCCAGCAACATCAGCTCTGTCAGCTCCTTGCTGCTCTT  
CAACACCACCTAGAACCT



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**FIGURE 850**

AGCGCGGGGAACCGGAGGCTGCAGGATGGTCAAGCTGACGGCGGAGCTGATCGAGCAGGCGGCGCAGTACACCA  
ACGCAGTGCGCGACCGGGAGCTGGACCTCCGGGGGTATAAAATTCCCGTCATTGAAAATCTAGGTGCTACGTTAG  
ACCAGTTTGATGCTATTGATTTTCTGACAATGAGATCAGGAACTGGATGGTTTTCTTTGTGAGAAGACTGA  
AAACATTGTTAGGGAACAACAACAGAATATGCCGTATAGGTGAGGGACTTGATCAGGCTCTGCCCTGTCTGACAG  
AACTCATTCTACCAATAATAGGCTCGTGGAACTGGGTGATCTGGACCCTCTGGCATCTCTCAAATCGCTGACTT  
ACCTAAGTATCCTAAGAAATCTGGTAACCAATAAGAAGCATTACAGATTGTATGTGATTTATAAAGTTCCGCAAG  
TCAGAGTACTGGATTTCCAGAAAGTAAACTAAAAGTTTTAATCCAGGTGCTGGTTTGCCAACTGACAAAAAGAA  
AGGTGGGCCATCGCCAGGGGATGTAGAAACAATCAAGAATGCTATAGCAAATGCTTCAACTCTGGCTGAAGTGGA  
GCGGCTGAAGGGGTTGCTGCAGTCTGGTCAGATCCCTGGCAGAGAACGCAAATCGGGGCC

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**FIGURE 851A**

GATGGGCTGTGCAAAGGGCGCGGCTGCTGAGGACAGGGCTGTGGCTGGAGAACCTGCTGCTTCCTGAAGCCGAGC  
CCCACCTAAAGGACCGAGAGCACAGGCCATGGGAGAGGAATCGAGTAGGGATGCAGAGCCTGGTGGCACTGTCC  
TGAGAGAGGAGGAGGCTGGGCAGGGCCCCGGCGCTGGAGAGGTGCCCTGCATATGGGACCTCTCAGAGGTGCACA  
AGAGCTGTGTGCCAGGTACCCCTGTCTCCTCTCCTCCTCCAGCCCCAGCCTACTCTCCTAATGGTCTGTGTCT  
TTCAGGGATGAGATTTACTGCCAGATCTGCAAGCAGCTCTCGGAGAACTTCAAACAGCAGCCTGGCCCCGGGC  
TGGATCCTGCTCAGCCTCTGCCTCGGCTGCTTCCACCCTCAGAGAGGTTTCATGAAGTATCTACTGAACTTCATC  
GGCCAAAGGGCCGGCAGCTACGGCCCCCTTCTGTGCCGAGCGCCTGAGACGCACCTATGCCAATGGGGTGCCTGCG  
GAGCCCCCACCCTGGCTGGAGCTGCAGGCTGTCAAGTCCAAGAAGCACATCCCCATCCAAGTCATCTTGGCCACT  
GGAGAGAGCCTAACCGTCCCCGTGGACTCAGCCTCCACATCTCGGGAATGTGCATGCACATCGCTCACAAGCAG  
GGCCTCAGCGACCACCTGGGCTTCTCCCTCCAGGTGCGCGTGTACGACAAGTTCTGGTCCCTGGGCAGCGGGCGC  
GACCACATGATGGATGCCATCGCCCGGTGTGAGCAGATGGCCAGGAGAGGGGCGAGAGCCAGCGCCAGTCACCC  
TGGCGCATCTACTTCCGGAAGGAATTTCTTCAACCCCTGGCAGCACTTCCGGGAGGACCTGTTCAGCACCAGCTT  
ATTTACCGCCAGTCTCCGAGGAGTCTGGTCTGGCGAGTACAGCTTCGAGAAGGAGGAAGAGCTGGTTGAGCTG  
CTGGCCCCGCACTGCTACGTGCAGCTCGGCGCCTCAGCAGAGAGCAAGGCTGTCCAGGAGCTGCTGCCCAGCTGC  
ATCCCCCACAACTGTACAGGACCAAGCCCCAGACAGGTGGGCGAGCCTCGTCACTGCCGCTGCGCCAAGGCC  
CCATACACTCAGAAGCAAGTCACACCACTGGCCGTGCGAGAGCAGGTGGTGGACGCCGCCCGCTGCAGTGGCCG  
CTGCTCTTCTCCGGCTCTTTCGAAGTCATCACACTCTCAGGCCCCCCGCTGCCAAGACGCAGCTGATCTTGGCT  
GTTAACTGGAAGGGGCTTTGCTTCTTGGACCAGCAGGAGAAGATGTCTGCTGGAACCTCTCTTCCAGAGGTCATG  
GGTCTGGCCACCAACAGGGAGGGCCAGGGCGGGCAGAGGCTGTCTCTCCACGATGCATGAGGAGTACGAGTTT  
GTGTACCCAGCAGTGTGGCCATCGCTGAGCTGGTGGCCCTGTTCCTGGAGGGCCTGAAGGAGAGGTCCATTTTC  
GCCATGGCCCTGCAGGACAGGAAGGCCACAGATGACACCACCTCCTGGCCTTCAAGAAGGGGGACCTGTTGGTC  
CTCACAAGAAGCAGGGGCTGTGGCTCTGAGAACTGGACCCTCGGCCAGAACGACAGGACAGGCAAGACGGGG  
CTGGTGGCCATGGCCTGCCTCTACACCATCCCCACGGTCACTAAGCCCTCGGCACAGCTGCTGAGCTTGCTTGGC  
ATGTACCCAGAGAAGAGGAAGCTGGCGGCTCAGGAGGGGCAGTTCACAGAGCCACGTCCTGAGGAGCCACCCAAG  
GAAAAGCTGCACACCCTGGAGGAGTTCTCCTATGAGTTCTTCAGGGCTCCAGAGAAGGACATGGTGAGCATGGCC  
GTGCTGCCCCCTGGCCCGTGGCCGCTGGCCACCTGTGGGCTATTCTCGCAGCCGCTGCGACAGCCGCTGTCAAG  
CGAGTCCACGCCAACGTGCACCTCTGGGACATCGCTGCCAGATCTTTGTCGCCATCTCCGGTACATGGGCGAC  
TACCTTCTCGGCAGGCTGGCCACCCTGGAGCTCACCGACCAGATCTTCACACTGGCCCTGCAGCACCAGGCC  
CTCCAGGACGAGGTCTACTGCCAGATCCTGAAGCAGCTGACGCACAACCTCAACAGGCACAGCGAAGAGCGGGG  
TGGCAGCTGCTGTGGCTGTGCACGGGCTCTTCCCGCCAGCAAGGGGCTGCTGCCCCATGCCAGAAGTTTATA  
GACACTCGGAGGGGGAAGCTGTGGCCCCGACTGCAGCCGCCGAATCCAGAAGGTCTGAGGACGGGGCCCCGG  
AAGCAGCCCCCGCACCAAGGTGGAGGTGGAGGCGCAGAGCAGAAGCTCTCCGCATCTGCCACAAGATCTACTTC  
CCCAATGACACCAGTGAGATGCTGGAGGTGGTTGCCAACACACGGGTGCGGGATGTGTGTGACAGCATTGCCACC  
AGGCTGCAGCTGGCCTCCTGGGAGGGCTGCAGCCTCTCATCAAGATTTAGACAAGGTGGGCCGGGCTGGGGCT  
GGGCAGACGGTGGGCGGACGGGCAGTGAGCGAGGCCCTAGGTGCTGCCCTGTGGGGGCTCAGCCTACCAGGGGCA  
CCCATGCTGGACCAGGCTGCACGGCCAGGGCTGTGGGACAGAGGTAGGTGGGGTCTTGAGCAGAGCCAGCTCC  
ACACGCCAATAGCCACGCACAGCCGACTCCAGCGCAGCACCAGGCCGTAGGCGGCCACTGGACCAGAACCAG  
CAGGTTCTCAGGAGGACAGTCCCCGGAAGCCACCAACTTCCCTGTACCTTCCCTTCCCAAGTTCATCAGCCAG  
AAGGAGGGGAGACTTCTTCTTTGATTCTTGAGGGAGGTGTCTGACTGGGTGAAGAAGAACAAGCCCCAGAAAGAA  
GGGGCCCCCGTGACGCTCCCCTACCAGGTGTACTTCATGCGGAAATTGTGGCTCAACATATCTCCAGGGAAGGAT  
GTGAATGCAGACACCATACTCCATTACCACCAGGAGCTGCCCAAGTACCTGCGCGGATTCCACAAGTGTTTCGCGG  
GAGGATGCCATCCACCTGGCGGGCCTCATCTACAAGGCCAGTTCAACAACGACCGGTCCAGCTGGCTAGTGTG  
CCCAAGATCTGAGGGAATGGTGCCTGAGAACCTCACACGCTGATGTCTCGGAGGAGTGGAAAAAGAGCATC  
CTTCTAGCCTATGACAAGCATAAGGACAAGACAGTGGAGGAGGCCAAGGTGGCCTTCTGAAAGTGGATCTGCCGG  
TGGCCACCTTCGGATCCGCCTTCTTCGAGGTGAAGCAAACCTCGGAGCCTTCTTACCCGAGCTCATCTCATC  
GCCATCAACCGACATGGGGTTCTGTCTCATCCACCCAAAGACCAAGGACCTGCTCACCACCTATCCCTTACCAAG  
ATCTCCAGCTGGAGCAGCGGCAGCACCTACTTCCACATGGCGCTGGGGAGCCTGGGCGGTGGCAGCCCGCTGCTG  
TGCGAGACCTCCCTGGGCTATAAGATGGATGACCTGCTGACCTCATATGTGCAGCAGCTCCTGAGTGCCATGAAC

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**FIGURE 851B**

AAGCAGCGGGGCTCCAAGGCCCCAGCCCTGGCCAGCACCTAGCAGCGGATGCTGGCGTGTCTGCTCAGGCGCCCT  
TCCCGACCTCTAGCCTGGCGGCACCTTCCCAGGCCCTCTCAACCCAGGGCCTGTCCTTGGCGGGCAGCCTTCCAT  
GCTGCCCCCATACAAAGCCCACTCAGCCCCGCAGGCGGCCCCCTCTGTCCTGGGCGCTGCCAGGGAGGCCAAA  
AGACGGGCCCAGAATGGGGTCGGGAGTCTCGGACCCCCAGGCTATTGGTGGATGACTGACTGACAGGACACCTCC  
CAACCCACCCACCCACCAGAATGTTCAATAAAAACCTCCTGGAGCAGGA

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**FIGURE 852**

MKYLLNFIGQGPATYGPFCERLRRTYANGVRAEPPTWLELQAVKSKKHIPIQVILATGESLTPVDSASTSREM  
CMHIAHKQGLSDHLGFSLQVAVYDKFWSLGSGRDHMDAIARCEQMAQERGESQRQSPWRIYFRKEFFTPWHDSR  
EDPVSTELIYRQVLRGVWSGEYSFEKEEELVELLARHCYVQLGASAESKAVQELLPSCHIPKLYRTKPPDRWASL  
VTAACAKAPYTQKQVTPLAVREQVVDAA RLQWPLLF SRLFEVITLSGPRLPKTQLILAVNWKGLCFDQEQKMLL  
ELSFPEVMGLATNREAQGGQRLLLSTMHEEYEFVSPSSVAIAELVALFLEGLKERSIFAMALQDRKATDDTTLLA  
FKKGDLLVLTKKQGLLASENWTLGQNDRTGKTGLVPMACLYTIPTVTKPSAQLLSLLAMSPEKRKLAAQEGQFTE  
PRPEEPPKEKLHTLEEFSEYEFFRAPEKDMVSMVLP LARARGHLWAY SCEPLRQPLLKRVHANVDLWDIACQIFV  
AILRYMGDYP SRQAWPTLELTDQIFTLALQHPALQDEVYCQILKQLTHNSNRHSEERGWQLLWLCTGLFPFSKGL  
LPHAQKFIDTRRGKLLAPDCSRRIQKVLRTGPRKQPPHQVEVEAAEQNVSRICHKIYFPNDTSEMLEVVANTRVR  
DVCDSIATRLQLASWEGCSLF IKISDKVGRAGAGQTVGGRAVSEALGAACGGLSLPGAPMLDQAARPGLLGQR

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**FIGURE 853**

AAGTGCATGACTCAGGACTGGGTGGGAGGGGGCTGTCCCTGAGGCCCTGGTCTCCCCAGCCAAGTCTTGGCAGG  
GGGATGCTGTTCTTCAGGATCCCATGACCTGGGGCTCTTGGGGAGCCCCAGCCCGGAGAGTGACCTGTGGCTTTG  
CTGGGGAAAGGGGCTTGGAGGGTACAGGGCAGTGTCCAGGATTGCAGTCTCAAATCCGAGGCCCCACAGGGGAGCT  
GCCTCTGTGATCGCCATTAAGGCTGTGGCCTGGGGTCTCAGGGCAGCCCAGGAACCAAAAATAGCCTGTAACTTG  
TCACTTTGTAAGTCTGCCCTCCAGACACACTTCCCTTTCTTCTCCCAAGCCTCTCTTCCCAGTTAGCTCCCT  
GACTTGGAGTCACCTCTAAGCCTTGGCCCAGGCCCTCTGCAGTGAGATGGAGGGACTCATCCCCCGGAGAGTGG  
CATCTGCAGGCCCCACTGGCTGCCTGTGGTCAACCCCTAGGGTTCTAGCGGGGCTGCCTCCCATTTTCTCAGAGC  
ATCCCTGCCAGCTGGCTGGTTCTACTCTCCTGTTTTCTAGGAAAAGAAAGTGGGGAGAGACAGGAACAGGGTCC  
GGAGCAGCCCCAGCAGCAGCATTGAGGTGGAGCAATATGTCGGACGCCTTGGCCAACGCCGTGTGCCAGCGCTGC  
CAGGCCCCGCTTCTCCCCCGCGAGCGCATTGTCAACAGCAATGGGGAGCTGTACCATGAGCACTGCTTCGTGTGT  
GCCAGTGCTTCCGGCCCTTCCCGAGGGGCTCTTCTATGAGTTTGAAGGCCGGAAGTACTGCGAACACGACTTC  
CAAATGCTGTTTGCTCCGTGCTGTGGATCCTGCGGTGAGTTTCATCATTGCCGCGTCAATCAAGGCCATGAACAAC  
AACTGGCACCCGGGCTGCTTCCGCTGCGAGCTGTGTGATGTGGAGCTGGCTGACCTGGGCTTTGTGAAGAATGCC  
GGCAGGCATCTCTGCCGCCCTTGCCACAACCGTGAGAAGGCCAAGGGCCTGGGCAAGTACATCTGCCAGCGGTGC  
CACCTGGTCATCGACGAGCAGCCCCCTCATGTTTCAGGAGCGACGCCTACCACCCTGACCACTTCAACTGCACCCAC  
TGTGGGAAGGAGCTGACAGCCGAGGCCCGGAGCTGAAGGGTGAGCTCTACTGCCTGCCCTGCCATGACAAGATG  
GGCGTCCCCATCTGCGGGGCTGCCGCCGCCCATCGAGGGCCGAGTGGTCAACGCGCTGGGCAAGCAGTGGCAC  
GTGGAGCACTTTGTCTGTGCCAAGTGTGAGAAGCCATTCTGGGGCACCAGCACTATGAGAAGAAGGGCCTGGCC  
TACTGCGAGACTCACTACAACCAGCTCTTCGGGGACGTCTGCTACAAGTGCAGCCATGTGATTGAAGGCGATGTG  
GTGTGCGGCCCTCAACAAGGCCTGGTGTGTGAGCTGCTTCTCCTGCTCCACCTGCAACAGCAAGCTCACCTGAAG  
AACAAGTTTGTGGAGTTTCGACATGAAGCCCGTGTGTAAGAGGTGCTACGAGAAGTTCCCGCTGGAGCTGAAGAAG  
CGGCTGAAGAAGCTGTGCGAGCTGACCTCCCGCAAGCCAGCCCCAAGGCCACAGACCTCAACTCTGCCTGAAGGC  
CCTCTTGCGCAGTGCTCTCGGGCCCTCCGCCTTCTCCCTCCTGCTGTCCATGCTTGGCCCCCTCGTCCCCATC  
CACCTGTGUCCTCCGCATCTTACCCTCCCTTTCTCTTTCTCATTGCCTTCTCCCTTCTGTTCCCTCATCTCTG  
CCTTCCCCATGTCTCTCCTCTCCTTGGCCGTGGCTTCTGTCTGTGAGGAGGCAGGAGCTGGGGAGTGGGAGCCTA  
TGACCCACAGTCTGACAGCCATGTCCACCTGTGCCACAGCTTCCGCCCACAGACCTCCAGGGACAGGAGCAAT  
TGCACCACAGCTCCCCGCTGGCCTGGCCCTCCCCAGGCGGCTCAGTGGCTCATGCTGTCTGTGAGAGCCCCTG  
CCCCAGAGCGGCCCCACTAAGCGCATGTGGCTCCTGGGCTACCCACAGCCAGGGCAGCCTGCTGGAGCCACAGGG  
CCAGGGCCATGCAGATGGAGGCCTCTGGGAGCCACCTCCAATCCCTCACCCTCACTCAACCAGTGGCACAGTGT  
CCTTGTGCCACACTGAGCCAGCAAGTCTGTGTCCACACCCACAAGCTACCTGGAGGGACAGGACCCACCTCC  
ATCCTTCGGAAGGCCTTCTGGAATCCCACCTTGGCCTCCGCCCTCGGTTCCGCCCGCCCTCTCCCCCGACC  
TTGGGGCTTGTGTGAGCCCTTGGGTGGGGCCAGGAGGAGGTGATGGCGTCAGAGGAGGTGTGGTCAGAGGTGAC  
TTGTTCCACCTCCAGGGAGGACGTTCTGCTTTCGGCCAGCGCAGACCTGGTGTGTTGTTGTTGGGCTCACGCTT  
GCACAATGAAGGCTTGTTACAC

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**FIGURE 854**

CCGACACCCACGGGCGGAGATCACCTGCTGCCCCGAGACCCCTGTCCCTTCCTCCCGGACCAGCAGCTAGAGGA  
TGTCCAAACGGAGTTGGTGGGCTGGATCCAGAAAGCCCCAAGAGAGATGCTGAAACTCTCAGGCTCTGACTCCA  
GCCAAAGCATGAATGGCCTTGAAGTGGCTCCCCCAGGTCTGATCACCAACTTCTCCCTGGCCACGGCAGAGCAAT  
GTGGCCAGGAGACGCCACTGGAGAACATGCTGTTCCGCTCCTTCTACCTTCTGGATTTTATCCTGGCTTTAGTTG  
GCAATACCTTGGCTCTGTGGCTTTTTCATCCGAGACCACAAGTCCGGGACCCCGGCCAACGTGTTCTGTATGCATC  
TGGCCGTGGCCGACTTGTGCTGCGTGTGGTCTGCCCACCCGCTGGTCTACCACTTCTCTGGGAACCACTGGC  
CATTGGGGAAATCGCATGCCGTCTCACCGGCTTCTCTTCTACCTCAACATGTACGCCAGCATCTACTTCTCTCA  
CCTGCATCAGCGCCGACCGTTTCTGGCCATTGTGCACCCGGTCAAGTCCCTCAAGCTCCGCAGGCCCCCTCTACG  
CACACCTGGCCTGTGCCTTCTGTGGGTGGTGGTGGCTGTGGCCATGGCCCCGCTGCTGGTGAGCCACAGACCG  
TGCAGACCAACCACACGGTGGTCTGCCTGCAGCTGTACCGGGAGAAGGCCTCCCACCATGCCCTGGTGTCCCTGG  
CAGTGGCCTTACCTTCCCGTTCATCACACGGGTACCTGCTACCTGCTGATCATCCGCAGCCTGCGGCAGGGCC  
TGGGTGTGGAGAAGCGCTCAAGACCAAGCGAGTGCATGATCGCCATAGTGTGGCCATCTTCTGGTCTGCT  
TCGTGCCCTACCACGTCAACCGCTCCGTCTACGTGCTGCACTACCGCAGCCATGGGGCCTCCTGCGCCACCCAGC  
GCATCCTGGCCCTGGCAAACCGCATCACCTCCTGCCTCACCAGCCTCAACGGGGCACTCGACCCCATCATGTATT  
TCTTCGTGGCTGAGAAGTTCGGCCACGCCCCTGTGCAACTTGTCTGTGGCAAAAGGCTCAAGGGCCCCGCCCCCA  
GCTTCGAAGGGAAAACCAACGAGAGCTCGCTGAGTGCCAAGTCAGAGCTGTGAGCGGGGGGCGCCGTCCAGGCCG  
AGCGCAGACTGTTTAGGACTCAGCAGACCCAGCAAGAGGCATCTGCCCTTTCCCCAGCCACCTCCCCAGCAAGCA  
ACCTGAAATCTCAGCAGATGCCCCACATTTCTCTAGATCGCCTAGTCTCAACCCATAAAAAGGAAGAACTGACAA  
AGGGGATCCATCGGCCACCCCTCTGCAGGGGCTTGTGATGGCTACAATGGCTCCTAGACACTCAACGACTTTCATC  
TGTGGCAGGGAGAGAGGAGGCCGGAAGAACAACCCCTGAACAATGGAGGCCTTTCTTTCCCGCTAGGCTCCCAGC  
CTCCTTCCCGCTACAGAATCGCTCATCGGCGAGGCTCAGCAGAAAGACCCTGAAGGCAGGCTGCAAATGACCCAG  
AAGAGGGACCTGGGAGTCTTGGTGGGGACGGGGAGGAGTCTCAATACTCCTTTGCAGCGCAAGGTACTCTGAGT  
CCCCICTGTAGTGCCTCTGCCAGACACACTGCCTGAGTTGAAGAGACACAGGCCACACATTTCAGGCTGGTTG  
CCAGCGGACGTCAGCACTCACGGCCTGCGGGGACTCAGCACAGCTCTGGATTCTGGATCTCTCCTGCTGTAACCC  
CACGCACAAGCCTGCAACCCCCAGAGCTCTTTGACAGGCTCCCAGGCCTCCCAGTCTGGACAAGCATGTGCAGT  
CACGGGAGCTCAGCTCAGGCCAGGGCTGGGCTGTGCACCTGCCCTCCCACTGACCCAGACCCACTTCTCCAGAGA  
GGCCTCTCTCCGCTGAGCTATTTCCCTTGCTAGTGTGCAGATATTTCCCTAACATGTCCTTTTTTGTATTTGTT  
TGTACGGACCATAAATATAACTGTAGCTTTAAGACTAAAAA

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**FIGURE 855**

MSKRSWWAGSRKPPREMLKLSGSDSSQSMNGLEVAPPGLITNFSLATAEQCGQETPLENMLFASFYLLDFILALV  
GNTLALWLFIRDHKSGTPANVFLMHLAVADLSCVLVLPTRLVYHFSGNHWPFGEIACRLTGFLFYLNMYASIYFL  
TCISADRFLAIVHPVKSLKLRPLYAHLACAFLWVVVAVAMAPLLVSPQTVQTNHTVVCLQLYREKASHHALVSL  
AVAFTFPFITTVTCYLLIIRSLRQGLRVEKRLKTKAVRMIAIVLAIFLVCFVPYHVNRSVYVLHYRSHGASCATQ  
RILALANRITSCLTSLNGALDPIMYFFVAEKFRHALCNLLCGKRLKGPPPSFEGKTNESSLSAKSEL

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**FIGURE 856A**

GGGGAAGATGGCGGCTGCTCCTTTGGAGGAGCGGGATTGAGAGGATCGGGGTGGGGAGACCAAACAAGAGAGACA  
TTTCTGGCTCTGAAGGCGAACGCTTCGCTGGCCATTTAGGAGCTCTGCTCAAAGCCAGACGTATCCTAGAAGGAA  
AACATCACCATTGGCTACAGAAATTGGTTCTCCTCCTCGTTTTTTCATATGCCAAGGTTCCAGCACCAGGCACCT  
CGACAGCTGTTTTATAAGCGACCTGATTTTGCACAACAGCAAGCAATGCAACAGCTTACTTTTGATGGAAAACGA  
ATGAGAAAAGCTGTGAACCGAAAAACCATAGACTACAATCCATCTGTAATTAAGTATTGGAGAACAGAATATGG  
CAAAGAGACCAGAGAGATATGCGGGCAATTCAGCCTGATGCAGGTTATTACAATGATCTGGTCCCACCTATAGGA  
ATGTTGAATAATCCTATGAATGCAGTAACAACAAAATTTGTTCCGACATCAACAAATAAAGTAAAGTGTCCTGTA  
TTTGTGTAGTGGTGGACTCCAGAAGGAAGACGCTTGGTCACTGGAGCTTCTAGTGGGGAGTTTACCCTGTGGAAT  
GGACTCAGTTTCAATTTTGAACAATATTACAGGCTCACGACAGCCAGTGAGGGCCATGACGTGGTCACATAAT  
GACATGTGGATGTTGACAGCAGACCACGGAGGATATGTGAATATTGGCAGTCGAACATGAACAACGTCAAGATG  
TTCCAGGCACATAAGGAGGCGATTAGAGAGGCCAGTTTCTCACCACGGGATAATAAATTTGCTACATGCTCTGAT  
GACGGCAGTGTAGAACTGCGGACTTTCTTCGTTGCCATGAGGAAAGAAATCTCCGAGGGCATGGTGCTGATGTG  
AAATGTGTAGACTGGCATCCAACCAAAGGGTTAGTTGTTTCAGGAAGTAAAGATAGTCAACAGCCAAATCAAGTTC  
TGGGATCCCAAGACTGGGCAGAGTCTTGCAACACTTCATGCCCCATAAAAAACACAGTAATGGAAGTGAATTAAC  
CTCAATGGCAATTGGCTACTCACAGCATCACGTGATCATCTCTGTAACTTTTTGATATCAGAAACCTAAAAGAA  
GAGCTTCAAGTCTTCCGAGGTCATAAGAAAGAAGCCACAGCTGTGGCCTGGCATCCTGTTTCATGAAGGACTTTTT  
GCCAGTGGAGGGTCTGATGGTTCTTTGTTATTCTGGCATGTTGGGGTAGAGAAGGAAGTGGGTGGGATGGAGATG  
GCTCACGAAGGGATGATCTGGAGTCTGGCTTGGCATCCTCTTGGGCATATTCTCTGCTCAGGCTCAAATGACCAT  
ACTAGCAAATTCGGACTCGAAACCGACCAGGTGATAAAATGCGAGATCGATATAATCTAAACCTTTTACCTGGA  
ATGTCTGAAGATGGAGTAGAATATGATGACCTCGAACCTAATAGCCTGGCAGTAATTCAGGAATGGGAATACCA  
GAACAATAAAATTAGCTATGGAACAAGAACAGATGGGGAAAGATGAATCAAATGAAATTGAAATGACAATTCCA  
GGTTTAGATTGGGAATGGAGGAAGTGATGCAAAAGGATCAGAAAAAAGTACCTCAGAAGAAAGTTCTTTATGCA  
AAACCCATTCTCTCAGTTCAGCAGGCTTGGATGCAAAATAAAGTTCCAATTCTGCTCCAAATGAGGTGCTG  
AATGACAGAAAAGAAGACATTAAATTGGAAGAGAAGAAAAAACACAAGCAGAAATTGAGCAAGAAATGGCTACA  
TTACAATATACTAACCCACAACCTTCTGGAGCAACTTAAATTTGAAGACTTGCACAGAAACAAGTTGAGCAAAAT  
CAGCCTCCTCCCTCATCTGGCACCCCTCTCCTCGGACCCACGCTTTTCCAGGACAAGGTCCAATGTCTCAGATT  
CCTCAAGGTTTTCAACAGCCCCATCCATCTCAGCAGATGCCAATGAACATGGCTCAAATGGGGCCTCCAGGTCCA  
CAGGGACAGTTTAGGCCTCCTGGACCCAGGGACAAATGGGACCACAAGGTCTCCACTGCATCAGGGAGGTGGG  
GGGCCACAAGGATTGATGGGACCACAGGGGCCCCAGGGCCCCGCCCAGGGGTTGCCACGGCCTCAGGACATGCAT  
GGGCCCCAAGGAATGCAGAGGCATCCTGGACCTCATGGCCCTTTGGGACCTCAAGGGCCACCTGGACCACAAGGT  
AGTTCTGGTCTCAAGGTCAATATGGGTCTCAGGGTCCACCTGGCCACAGGGTCACATAGGGCCCCAAGGCCG  
CCTGGCCCTCAGGGTCACTTGGGCCACAGGGGCTCCGGGTACTCAAGGTATGCAAGGACCACTGGTCCCAGA  
GGAATGCAAGGGCCTCCTCATCTCATGGGATCCAAGGCGGACCAGGGTCTCAAGGGATCCAAGGTCTGTGTCT  
CAGGGACCTCTGATGGGATTGAATCCAAGAGGAATGCAGGGGCTCCAGGCCCCGGGAGAACCAGGGTCTGCT  
CCCCAAGGGATGATTATGGGCCACCCGCTCAAGAGATGAGAGGACCTCACCTCCAGGTGGACTACTGGGACAC  
GGCCCTCAGGAAATGAGAGGTCTCAGGAGATCCGAGGCATGCAGGGGCTCCACCCCAAGGATCAATGCTGGGA  
CCTCCCCAGGAATTGCGAGGGCCTCCAGGCTCACAAAGTCAGCAGGGGCCGCCCCAGGGCTCTTTAGGACCTCCA  
CCCCAGGGTGGCATGCAAGGACCCCGGACCTCAGGGACAGCAGAACCAGCAAGAGGGCCACATCCATCTCAA  
GGGCAATACCATTCCAGCAACAGAAAACGCCTCTGCTAGGTGATGGGCCCCGGGCCCCCTTCAACCAGGAAGGA  
CAGAGCACAGGCCCCCACCCTGATACCAGGCCTAGGGCAGCAGGGAGCACAAGGTGCGATTCCCCCTCTGAAC  
CCCGGACAAGGACCTGGCCCCAACAAAGTTTCAGAAGAGGAGCCCCGCGGAGGCATGAGGGCCGTGCTCCCCCA  
GAGGAAGGGATGGTTTTCTGTGCTGAAGACTTTGGTCCAGAGGAGAATTTTGATGCTTCTGAGGAAGCGGGCC  
GAGGACGAGATCTCAGAGGTGAGGTGCGGGTACCCACGAGGAGGAAGGAAGGGTTTACTTCCCACTCCTGACG  
AGTTCCCTCGCTTTGAAGGAGGGCGGAAGCCAGATTCTGGGATGGAACAGAGAGCCTGGGCCAGGTGATGAAC  
ATTTTCGTGATACTCCCCGCCCTGATCATCCCCCTCACGACGGTCATTCCCCAGCCAGCAGAGAACGCTCCTCTT  
CTCTCAAGGCATGGACATGGCATCCCTACCTCCCCGAAAGCGCCCTGGCATGATGGGCCAGGCATCTGAGC  
ACAGAGAGATGGAGGCCCCAGGAGGCCCTTCTGAAGACCGAGGAGGCAAGGCCGAGGGGGCCAGGACCTGCTC  
AGAGAGTGCCCAAAATCTGGGCGTTCCAGTCTCTTAGACGGAGAGCACCACGATGGATACCACAGAGATGAACCTT



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**FIGURE 856B**

TTGGGGGCCCTCCAGGCAGTGGCACCCCTTCTCGAGGGGGCCGGAGTGGCAGTAACTGGGGTAGAGGGAGTAACA  
TGAACCTCTGGCCCGCCGAGGCGAGGAGCTTCACGGGGTGGTGGAAAGGGTCCGGTAGAAGCTGGAACCTGAGTACCC  
TGAGGCCCTCTCTGGACAGTATGTAAGAACTTCTTGTGGACTCACCAAGAGAAACAAAAGGAAGCCTGCACCATTTG  
TAGCCCTGAACTCTTTTCTGGGCACCTGAATCCCAGGAACCCCTCAATGAGGTCTTCAAGATGAAGAGACTGCTGC  
CAGCTACCAGCCTGGCTGGCCCTGTCTGTCCACCCTCATTTGCCCAACTCCCATGTTGTTTTGTGAAGATAAAA  
GCTGGGATCTTTTTCTTTTTTTAAGTCTCACAAGACATGGGGCATCTCCACAAATTAAGTTCCTGTCCATTTG  
GAAATTTGTTTCTATGTGTACAGTTTGTCTAGAGAAAAACAAAGTTTTTGTATGAATACAGAATGTGATTTACGCA  
AGAATTGACAGAAAACCTAGTTGTGAAGTGCTTGCCTTAAGGAAACCTTTGGTTTTCCATCGCATCCCATCTGCCAA  
GGAATGCACGGTTGTTGCTGATGTTTCATGAGCATATTAACCACTAGGTTATCTAAATTAATCTCAGCTGTGAAC  
TTGTGTTTTTCAACACATTCTGTACACCATTTTTGTGACAGAAAAATACTTGAAAATTATTCTAATGTAGTTTG  
TAGTAGGTTCAAATTTTTATTAGACATGCTCTGACAGATGGAAAATTGTACTCTGAAGAGAAAATGCAATCTTC  
TGGATGTCCAACGAGGGAGCTTCCCCTTGGAAGCATCTCCTAAGAAATCACAGTTTAGGTTTGAATCGCCTTGTTA  
TGATGAGGAGAGGAACCTTGATGTTAGTCAGAAATAAAGTCACATGCCCTTTAGATAACTTGAAATCACACATGGA  
GTTGATAAGGAATGGACCAAAATAGGTCCTCAAACAATTTTGCAACACTTAATTAAGTTTTCTCTCTTCTCTCT  
CCATACTATGTGGAATAACAGTGTTACGGCAGGGCGTACTTCTAACTCACAGTAAGCCAGATAGATCTTGTCCA  
TGGCAAATTCCTTGTTTTAAATAAACATAACATTTAGCCAGTTTGGATTGGAAGCCAAAATTCAGTTTGTTAT  
ATACCCCATGATACTTTCTATACTGACCTTTATTTTGGTTTTACATGGAAGCTTTTATTAAAAGGACTGTCTTAT  
GGCCACCTTAACATTTTATTACATTGGCAGCTTCAGTTTGGCATCAGTCAAATTTATTGGCAAATTTAGTGGT  
GCTGGAAGTTTCTTTTTTCTTTTCTTTTTTGACAGAGTCTTGCTCTGTCAACCAGCCAGGAGTGCAGTGGTGC  
AATCACGGCTCACTTCAGCTTTGACCCTGCCTCAGCTCCCTAGTAGCTAGGACTACAGGCATATGCCACCATGC  
CCAGCTAATTTTTTGTGTGTGTGTTTTTGTAGAGATGGAGTTTACCACCTTTGTCTATGCTGGTTTCAAACCTC  
TGGGCTCAAGCGGTCCACCTGCTGTGGCCTCCCAAGTGCTGGGATTGCAGATCTGAGCCACAGTACCTGGCCGC  
TGGTGCTGGAAGTTTCAATGGTTGCTTAGAAAAGGCATACTGATATAGTTTAAACAGGATATGAAAATTTAAGTGG  
TTCTCTATGAATGTAAAAAACAGCAAAAGCTAATTGATTTCTGTGGAGTGAGAAAATGTCAGCCATATACACTGC  
TTTTCAGTGTTAGAATCTAGAGACTATTTTTTTTTTAACCTTGAAATTACAGCTTATTTAATCAGCGCTCCACCA  
TAAACATGCTATTAGGAGGCTCAAGATTGCTTTAGGTTATGGGTATTTCTTCACTCACCCCACTGGTATAGCT  
TAAAGAGAGAGAACTGTAATCAAATTTTCATGAAGCTAAAACCGGATCCAGAGACCAAAACCCATATCAAGATTAG  
ACTTTTTTCCCTGAGATTCTAGTGGAAAAATTTTATTATTTTGGGCTTAACTTTAGAAACATAGTATCTCAG  
TAAGCAGATAACCAGATCACATTTAAAAATTTTATTTTACCTTGAAGCTCTACTGGACTTGACAGATCACATTT  
TGAGAGTGAATTCATTTAAACAATAAACCTCTACATTATACTTAT

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**FIGURE 857**

AGAACATCCAGTCACGGATAAAAAATGAGCTGGTTCAGAAGGCCAAACTGGCCGAGCAGGCTGAGCAATATGATGA  
CATGGCAGCCTGCATGAAGTCTGTAAGTAAGCAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTCTCAGT  
TGCTTATAAAAAATGTTGTAGGAGCCCGTAAGTCATCTTGGAGGGTTCGTCTCAAGTATTGAACAAAAACCGGAAGG  
TGCTGAGAAAAACAGCAGATGGCTCGAGAACACAGAGAGAAAAATTGAGACGGAGCTAAGAGATATCTGTAATGA  
TGTATTGTCTCTTTTGGAAAAGTCTTGATCCCCAATGCTTCACAAGCAGAGAGCAAAGTCTTCTATTGAAAAAT  
GAAAGGAGATTACTACCGTTACTTGACTGAGGTTACTGCTGGTGATGACAAGATAGGGATTGTGGATCAGTCACA  
ACAAGCATAACCAAGAAGCTTTTGAAATCAGCAAAAAAGAAATGCAACCAACACATCCTGTGAGATTGGGTCTGGC  
CCTTAACTTCTGTGTTCTATTATGAGATTCTGAACTCCCCAGAGAAAGCCTGCTGTCTTGCAAAGACCGCTTTTG  
ATGAAGCCATTGCTGAACTTGATACATTAAAGTGAAGAGTCATACAAAGACAGCATGCTAATAATGCAATTACTGA  
GAGACAACCTTGACATTGTGGACATCGGATACCCAAAGGAGACGAAGCTGAAGCAGGAGAAGGAGGGGAAAAATTAAC  
CGGCCTTCCAACCTTTTGTCTGCCTCATTCTAAAATTTACACAGTAGACCATTGTGTCATCCATGCTGTCCCAAAA  
TAGTTTTTTGTTTATGATTTATGACAGGTTTATGTTACTTCTATTGTTGATTTCTATATTTCCCATGTGGTTTTTA  
TGTTTAATATTAAGGGAGTAGAGCCAGTCAACATTTAGGGAGGTATCTGTTTTCATCTTGAGGTGGCCAATATTG  
GGATGTGGAATTTTATACAAGTTATAAATGTTTGGCATAGTACTTTTGGTACATTGTGGCTTCACAAGGGCCAG  
TGTAAGCTGCTTCCATGTCTAAGCAAGAAAACTGCCTACATATTGGTTTGTCTGGTGAGAAATAAAGGGAT  
CATTGATTCCAGTCAGAGGTGTAGTAATTGTGGGTACTTTTAAGGTTTGGAGCACTTTACAAGGCTGTGGTAGAA  
ACATACCCCATGGATACCACATGTTAAACCATGTATATCTGTGGAATACTCAGTCTCATTGTGCACACCTTTGAC  
TACAGCTGCAGAAAGTTTTCTTTAGATAAAGTTGTGACCCATTTTACTCTGGATAAGGGCAGAAACAGTTCACAT  
TCCATTATTTGTAAAGTTACCTGCTGTTAGCTTTTCTATTATTTTGTCTACACTCATTTTATTGTTTAAATGTT  
TTAGGCAACCTAAGAACAAATGTAAAGTAAAGATGCAGTAAAAATGAATTGCTTGGTATTTCATTGCTTCATGTA  
TATCAAGCACAGCAGTAAACAAAAACCCATGTATTTAACTTTTTTTTAGGTTTTTGTCTTTGTGATTTTTTTT  
TGATACTTGCCTAACATGCATGTGCTGTAAAAATAGTTAAACAAGGAAATAACTTGAGATGATGGCTAGCTTTGTT  
TAATGTCTTATGAAATGTTTCGTGGATAATCCAAGCATAATTGTTAAGAACACGTGTATTAAATTCATGTAAGTG  
AATAAAAGTTTTATGAATGGACTTTTCAACTACTTCTCTACAGCTTTTTCGTGTAATTAGTCTTTTGGTTCTGA  
AATTTCTCTAAAGGAAATTGTACATTTTGAATTTTATTCCTTATTCCCTCTTGGCAGCTAATGGGCTTTTAGTA  
AGTTTAAACAAAAATTTATCATAACAACAAAAATACTACTAATACTACTGTTTCCATGTCCCATGATCCC  
GTCTCTTCCCTCCCAACCTGAAAAAATGAGTTTCTATTTTCTGGGAGAGGGGAGATTAAATGGAAAAAATG  
TTAATATGTTCCATTTAAATTTTGGTATATGGCATTTCCTAACTTAAGAAGCCACAATGTTCTTGGCCCATCAT  
GACAATGGGTAGCATTAACTATAAGTTTGTGCTTCCAAATCACTTTTCGGTTTTAAGAATTTCTTGATACTCC  
TACAGCCTGCCTTCGATTTTGATCCTTTATCTGTTTGTGAGGTGCACAAGATTACCTTCCTTTTGTAGCCATCT  
GTCTTGTCACCAACCATTCCTACTTGGTGGCCATGTACTTGGAAAAAGGCCGATGATCTTCTGGCTCCACTCA  
ATGTCTAAGGCACCTGCTTCCTTTGCTTGCATCCACAGACTATTTCCCTCATCCTATTTACTGCAGCAATTGT  
CTCCTTAGTTGACGAGATTGTGTTTATCTCCCTTTAAACCCCTACCTATCCTGAATGATCTGTCTGCTGCT  
TTAAATCCTTCCTCTTCTCTCTATTCTCTAAATAATGATGGGGCTAAATTATACCCAAAGCTCACTTT  
ACAAAAATTTCTCAGTACTTTGCAGAAAACACCAACAAAAATGCCATTTTAAAGAGGTGATTTTTTCTTT  
TAGAATGTTAGAATGTAAGCTCCTCAAAAGCAGGGACAATGTTTCCGTATGTTCTACTGTGCTTAGTATACTGT  
AAATGCTCAATAAATACTGATGATGGGAGGCAGTGAGTCTTGATGATAAGGGTGAGAAACCGAAATCCC

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**FIGURE 858**

GATGACATGGCAGCCTGCATGAAGTCTGTAAC TAAGCAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTC  
TCAGTTGCTTATAAAAAATGTTGTAGGAGCCCGTAAGTCATCTTGGAGGGTCGTCTCAAGTATTGAACAAAAACG  
GAAGGTGCTGAGAAAAACAGCAGATGGCTCGAGAACACAGAGAGAAAATTGAGACGGAGCTAAGAGATATCTGT  
AATGATGTATTGTCTCTTTTGAAAAGTTCTTGATCCCCAATGCTTCACAAGCAGAGAGCAAAGTCTTCTATTG  
AAAATGAAAGGAGATTACTACCGTTACTTGACTGAGGTTACTGCTGGTGATGACAAGATAGGGATTGTGGATCAG  
TCACAACAAGCATACCAAGAAGCTTTTGAAATCAGCAAAAAAGAAATGCAACCAACACATCCTGTCAGATTGGGT  
CTGGCCCTTAAC TCTGTGTTCTATTATGAGATTCTGA ACTCCCCAGAGAAAGCCTGCTGTCTTGCAAAGACCGC  
TTTTGATGAAGCCATTGCTGAACTTGATACATTAAGTGAAGAGTCATACAAAGACAGCATGCTAATAATGCAATT  
ACTGAGAGACAAC TTGACAATGTGGTTTTTATGTTTAAATATTAAGGGAGTAGAGCCAGTCAACATTTAGGGAGGT  
ATCTGTTTTCATCTTGAGGTGGCCAATATTGGGATGTGGAATTTTTATACAAGTTATAAATGTTTGGCATAGTAC  
TTTTG

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## FIGURE 859A

TTTTCGGCGCCGTGGCGGAATGGCGGCTTCCATCTCTGAGGCGAGCGACGCTATGGATCCCACAGTGGTTTGCTA  
AGAAGGCCATTTTCAACTCTCCACTGGAGGCTGCTATGGCGTTCCCTCACCTGCAGCAGCCCAGCTTTCTACTGG  
CTAGCCTGAAAGCTGACTCTATAAATAAGCCCTTTGCACAGCAGTGCCAAGACTTGGTTAAAGTCATTGAGGACT  
TTCCAGCAAAGGAGCTGCACACCATCTTCCCATGGCTGGTAGAAAGCATTTTTTGGCAGCCTAGATGGTGTCTCTCG  
TTGGCTGGAACCTCCGCTGCTTACAGGGGCGCTGAATCCTGTGGAGTACAGCATCGTGATGGAATTTCTCGACC  
CTGGTGGCCCAATGATGAAGTTGGTTTATAAGCTTCAAGCTGAAGACTATAAGTTGAGCTTTTCTGTCTCTACT  
TGCCTGGTCTGTGAAGGCGTCCATCCAGGAGTGCATCCTCCCTGACAGTCTCTGTACCACAACAAGGTCCAGT  
TCACCCCTACTGGGGGCTTGGTCTGAACCTGGCCCTGAATCCGTTTCGAGTATTACATATTCTTCTTTGCCTTGA  
GCCTCATCACTCAGAAGCCACTTCTGTGTCTCCACGTCCTTTCAGACTGTGCCTATTTATCCTGGTGG  
ACAGGTACCTGTGATGGTTCTGCCCACCGAAGGCAGTGTGCCCCACCACTCTCTCCAGCCCAGGGGGGACCA  
GCCCCCTACCACCTCCCAGGACACCAGCCATACCCCTTTGCTTCTATGGCCTCCACCACACTAGCCTCCTAAAGC  
GACACATCTCTCATCAGACGCTGTGAATGCAGACCCCGCTCCACGAGATCTGGAGGTGAGAACTCTGTCTCC  
AGGTTTTTGTGAAATGTGGCTTCATCACTATTCTTGGAGATGTATCAAAAAATGCAGTCCCCTCATGCCAAGG  
AGTCGTTACGCTACTGAGGAGCATGTGTTGGTGGTGCCTGCTGTGAAGCACCTGCACGCTTTGCCAACA  
GCCTGAAGCCAGAGCAGGCTTACCCTCCGCCCCTCCACGCCACCGAGCCCCCTGGAGGAGTTCAAACGGGCTG  
CTGTCCCGAGGTTCTGTCCAGCAGAACTCTACCTCTTCTTGCAGCATTGCTTTGGCCACTGGCCCCCTGGACGCAT  
CGTTCAGAGCTGTCTGGAGATGTGGCTGAGCTACCTGCAGCCGTGGCGGTACGCGCTGACAAGCAGGCTCCGG  
GCAGCGACTCCAGCCCCGGTGTGTGTCGGAGAAATGGGCACCCCTTTGTCCAGGAGAACCTGTGATGTACACCA  
AGTTGTTTTGTGGGCTTTCTGAACCGCGCTCCGCACAGACCTGGTCAGCCCCAAGCACGCGCTCATGGTGTTC  
GAGTGGCCAAAGTCTTTGCCAGCCCAACCTGGCTGAGATGATTGAGAAAGGTGAGCAGCTATTCTGGAGCCAG  
AGCTGGTCATCCCCACCGCCAGCACCGACTCTTACGGCCCCACATTCACTGGGAGCTTCTGTACCCCTGGC  
CACCAGCGGTCACTGATGCCTCTTCAAGGTGAAGAGCCACGTCTACAGCCTGGAGGGCCAGGACTGCAAGTACA  
CCCCGATGTTTGGGCCCCGAGGCCCCGACCCCTGGTCTGCGCTCGCTCAGCTCATCACAGGCCAAACACACAG  
CCAAGTCCATCTCCGACCAGTGTGCGGAGAGCCCGGTGGCCACTCTTCTCTCATGGCTGGGCTTTAGCTCCA  
TGGACACCAATGGCTCTTACACAGCCAACGACCTGGACGAGATGGGGCAAGACAGTGTCCGGAAGACAGATGAAT  
ACCTGGAGAAGGCCCTGGAGTACCTGCGCCAGATATTCCGGCTCAGCGAAGCGCAGCTCAGGCAGTTCACACTCG  
CCTTGGGCACCAACCAGGATGAGAATGGAAAAAGCACTCCCCGACTGCATCGTGGGTGAGGACGGACTCATCC  
TTACGCCCCCTGGGGCGGTACCAGATCATCAATGGGCTGCGAAGGTTTGAATGAGTACCAGGGGGACCCGGAGC  
TGCAGCCCATCCGGAGCTATGAGATCGCCAGCTTGGTCCGCACACTCTTTAGGCTGTCTGTGCCATCAACCACA  
GATTTGCAGGACAGATGGCGGCTCTGTGTTCCCGGATGACTTCTCGGCAGCTTCTGTGCTACCACTCACAG  
AACCTGGGCTGGCCAGCAGGCACCTGTGAGCCCTGTGGGGCGGAGGCAGGTGGCCGGCCACACCCGCGGCCCA  
GGCTCAGCCTGCGCTTCTTGGGAGTTACCGGACGCTGGTCTCGCTGTGCTGGCCTTCTTCTGTGGCTCTCTGT  
TCTGCGTGGGGCCCCCTCCCATGCACGCTGTCTCACCTGGGCTATGTCTCTACGCTCTGCCATGCACACTGC  
TGACCGAGCGGGGAAGCTGCACACAGCCCTGAAGGTGTGAGCTGCCTTACAGCAGGCTGGAGGGATTGGCCACA  
CAGCCCCACCTTGGGCTGAGAGGACCTGGGAAGCCCTCCAGGAGGGAACACGGTCATCTCGGGCTTCTGGAG  
CGGGGTTCTGTCAGCCGCAGAGGCATCTGGAGGAAACGCAACCAAGAAAGGAAGGCAGGTGGGCCCCAGCAAAGG  
AGTAGCTGCCAGGGCTCAACAGCTACGCTCTGTGACAGCGCAGAGCTCAGCGGCGGCTTTCCCTCCCTCCGCCA  
AGGACTCACGGCCAAGCCAGCTCTCGGGGCTTTTTTCCACTGCCCATTGGCTACTCTGCTGCACCAAGCTTGG  
GAGCCAGCCTGCCAACAGCCACCTGGGCTGGCCTCCCCACTGGCTGGCCTTGAGGTTGGCAGAGTGGGTTGTGG  
CGCTTCTCTCTGTGTGGGACAGGACAGTGGCTTAAGTCTCCACTCCAGGAAAGAATCAAAGTTTCTAGAGT  
TGTGAGAAAACAGAGAGTGGCTGTCTGATTCTTCACTGTGAGGGGCGTTCTTCACTGTTCTCCAGCTGTTC  
AGACTGGGCGGTAGAATTCATGTTTTCAGGAGCCTAAGACCTCCAGAGCCAGGGGCTTACCGCAGACCCCA  
AGCCATTGAGCACATACCCAAAGCAGTGGCCAACATCGCGGACCCCTGTGCCTTGTACAGATGGGTGCTGGTC  
CTCAGGCGTTGGGGACACTGCTGGGTGATGGGGTCGATTCTGCCAGTTTCTGCTGTGAGCCAAAGATGGTCA  
GAAGCATTGTCACTTCACTAATCAAGTGTCAAAGACATGGCAACCGTTTCACTGGTACTTAAGTATTCAAAT  
ATACAACTACAGATTCTGTACAGAAACAGCAGGGGTCTTACCTTCACTTACCCACAGGCGACATGCGAGG  
GAGAACAGCATCTCAGTGGTGATTTCAAACCAAGCCTTTGTTTTCGGTGTGGGTTTTGGGGTTTTGCTTTAAT  
GTTTTTGAAATGTAAATGTTGGGCTTTGTATTTGATGTAACTGAGCATAATGGCATTTTAGGGCTGTGACC

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**FIGURE 859B**

AAAATGAAGCTTGTAACGACCCATGGATCTGAATAAACATGTCCTTGCTTCTGAAAAAAAAAAAAAAAAAAAAA  
AAAAAAA

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**FIGURE 860**

MAFPHLQQPSFLLASLKADSINKPFAQQCQDLVKVIEDFPAKELHTIFPWLVESIFGSLDGVLVGWNLRCLQGRV  
NPVEYSIVMEFLDPGGPMMKLVYKLQAEDYKFDFPVSYLPGPVKASIQECILPDSPLYHNKVQFTPTGGLGLNLA  
LNPFYYIFFFALSLITQKPLPVSLHVRTSDCAYFILVDRLSWFLPTEGSPVPPPLSSSPGGTSPSPPPRTPAIP  
FASYGLHHTSLLKRHISHQTSVNADPASHEIWRSETLLQVFVEMWLHHYSLEMYQKMQSPHAKESFTPTTEHVLV  
VRLLLKHLHAFANSLKPEQASPSAHSHATSPLEEFKRAAVPRFVQQKLYLFLQHCFGHWP LDASFRAVLEMWLSY  
LQPWRYAPDKQAPGSDSQPRCVSEKWAPFVQENLLMYTKLFVGF LNRLRDLVSPKHALMVFRVAKVFAQPNLA  
EMIQKGEQLFLEPELVIPHRQLFTAPTFTGSFLSPWPPAVTDASFVKSHVYSLEGQDCKYTPMFGPEARLTV  
LRLAQLITQAKHTAKSISDQCAESPAGHSFLSWLGFSSMDTNGSYTANDLDEMGOQSVRKTDEYLEKALEYLRQI  
FRLSEAQLRQFTLALGTTQDENGKKQLPDCIVGEDGLIITPLGRYQIINGLRRFEIEYQGDPELOPIRSYEIASL  
VRTLFRLLSSAINHRFAGQMAALCSRDDFLGSFCRYHLTEPGLASRHLLSPVGRROVAGHTRGPRLSLRFLGSYRT  
LVSLLLAFFVASLFCVGPLPCTLLTLGYVLYASAMTLLTERGKLHQP

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**FIGURE 861**

GGCGCCGAGTAGCCGGGCCGGGCCGGAGCGCGGGCGGGCGGAGGCAGCTGCGCCCGCGCCTCCTGCCCTCCCA  
GGCCCCGCGCCCCGCGCCCGGGCCCCGGCGATGGTGACACATGCGGGCGGCGGCGCGCCGGCGGCAGGACCATGGT  
TGAGCGCGCCAGCAAGTTCGTGCTGGTGGTGGCGGGCTCGGTGTGCTTCATGCTCATCTTGTACCACTACGCGGG  
CCCAGGACTGAGCCTGGGCGCGCCCGGGCGGCCGCGCGCCGCCGACGACCTGGACCTGTTCCCCACGCCCGACCC  
CCACTACGAGAAGAAGTACTACTTCCCAGTCCGCGAGCTGGAGCGCTCGCTGCGCTTCGACATGAAGGGCGACGA  
CGTGATCGTCTTCTGACATCCAGAAGACGGGCGGCACCACCTTCGGCCGCCACCTCGTGACAGACGTACGCCT  
CGAGGTGCGGTGCGACTGCCGGCCCGGCCAGAAGAAGTGCACCTGCTACCGGCCCAACCGCCGCGAGACTTGGCT  
CTTCTCCCGCTTCTCCACCGGTGGAGCTGCGGGCTGCACGCCGACTGGACCGAGCTACCAACTGCGTGCCCGG  
CGTGCTGGACCGCCGCGACTCCGCCGCGCTGCGCACGCCAGGAAGTTCTACTACATCACCTTGCTACGAGACCC  
CGTGTCGCCGTACCTGAGCGAGTGGCGGCATGTGCAGAGGGGTGCCACGTGGAAGACGTGCTTGACATATGTGTGA  
TGGGCGCACGCCACGCCTGAGGAGCTGCCGCCCTGCTACGAGGGCACGGACTGGTCGGGCTGCACGCTACAGGA  
GTTTCATGGACTGCCCGTACAACCTGGCCAACAACCGCCAGGTGCGCATGCTGGCCGACCTGAGCCTGGTGGGCTG  
CTACAACCTGTCTTCATCCCGAGGGCAAGCGGGCCAGCTGCTGCTCGAGAGCGCCAAGAAGAACCTGCGGGG  
CATGGCCTTCTTCGGCCTGACCGAGTTCACGCGCAAGACGCAGTACCTGTTTCGAGCGGACGTTCAACCTCAAGTT  
CATCCGGCCCTTCATGCAGTACAATAGCACGCGGGCGGGCGGGCTGGAGGTGGATGAAGACACCATCCGGCGCAT  
CGAGGAGCTCAACGACCTGGACATGCAGCTGTACGACTACGCCAAGGACCTCTTCCAGCAGCGCTACCAGTACAA  
GCGGCAGCTGGAGCGCAGGGAGCAGCGCCTGAGGAGCCGCGAGGAGCGTCTGCTGCACCGGGCCAAGGAGGCACT  
GCCGCGGGAGGATGCCGACGAGCCGGGCCGCGTCCCCACCGAGGACTACATGAGCCACATCATTGAGAAGTGGTA  
GTGGCGGTGGTGGCCACGGGGAGGCCTCTTGGGGGTGTGGGGGATAAAACAGGACAGACGACAGGTCCACCCAA  
GACTGTCAAGGGATGAGCATCCCAAACCTGCTCCACAGAGGTAGCTGCGTCCTGAAAAAAACAGAGCAGGGATG  
TAGTGGGGCTGGGCAGGGATGGGGGCTTGAGAAATCAACAGGTGCAGCCAGTGGGTGAGGAAAGCGTGCTCG  
AAGGATGCCATGGTCAGGGCAGGGCCTCCAGAGCAGGTGTTGTGCTGAGCTGCTCTCCTGGCCTCCTTGGATT  
TATCGCAAAACTGAAGGTTTGCGCAAGAGACGAGGACAGCGGAAAGTGGACCTGCCAGGCCGGGAGTGTGTCCC  
TCACCAACTATGCACACAGCACTCGCTCTTAGCTCCTCTGTCCGGGCTACTAGGAGTGAGACCAGCTTCTGGCAA  
CTGCCCCAGCTCCAGGCCATCCCATAGCCCCCTCCTTCTGGCTGCCCCCAATGCCCCGAGGCCTGGGGAGCCCC  
CAGCTCACCCATCTGTAGCTCCCTCAAAGTCAGGGCCCAACCCATCTGAGGCAGAGAAGACTCGAGTCCAGCCCC  
CAGGAAGCCTGCTCCCCTCTCTGGCCCATGCTCCTGCTTCATGCTTTGGGTGAGGAGCCAAAGCTGATGTTTCAG  
GCCCCACCACTCCCTACAGTCCTCAGACC

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**FIGURE 862**

GACTGCCCCGTACAACCTGGCCAACAACCGCCAGGTGCGCATGCTGGCCGACCTGAGCCTGGTGGGCTGCTACAAC  
CTGTCTTCATCCCCGAGGGCAAGCGGGGCCAGCTGCTGCTCGAGAGCGCCAAGAAGAACCTGCGGGGCATGGCC  
TTCTTCGGCCTGACCGAGTTCAGCGCAAGACGCAGTACCTGTTTCGAGCGGACGTTCAACCTCAAGTTCATCCGG  
CCCTTCATGCAGTACAATAGCACGCGGGCGGGCGGCGTGGAGGTGGATGAAGACACCATCCGGCGCATCGAGGAG  
CTCAACGACCTGGACATGCAGCTGTACGACTACGCCAAGGACCTCTTCAGCAGCGCTACCAGTACAAGCGGCAG  
CTGGAGCGCAGGGAGCAGCGCCTGAGGAGCCGCGAGGAGCGTCTGCTGCACCGGGCCAAGGAGGCACTGCCGCGG  
GAGGATGCCGACGAGCCGGGCGCGTGGCCACCGAGGACTACATGAGCCACATCATTGAGAAGTGGTAGTGGCGG  
TGGTGGCCACGGGGAGGCCTCTTGGGGGGTGTGGGGGATAAAACAGGACAGACGACAGGTCCACCCAAGACTGTC  
AAGGGATGAGCATCCCAAACCTGCTCCACAGAGGTAGCTGCGTCTGAAAAAAACAGAGCAGGGATGTAGTGGG  
GCTGGGCAGGGATGGGGGCTTGAGAAATCAACAGGTGCAGCCAGTGGGTTCAGAGGAAAGCGTGCTCGAAGGATG  
CCATGGTCAGGGCAGGGCCTCCAGAGCAGGTGTTGTGCCTGGAGCTGCTCTCCTGGCCTCCTTGGATTATCGCA  
AAAAGTGAAGTTTTCGCAAGAGACGAGGACAGCGGAAAGTGGACCTGCCAGGCCGGGAGTGTGTCCCTCACCAA  
CTATGCACACAGCACTCGCTCTTAGCTCCTCTGTCCGGGCTACTAGGAGTGAGACCAGCTTCTGGCAACTGCCCC  
AGCTCCAGGCCATCCCATAGCCCCCTCTCTTCTGCTGCCCCCAATGCCCGGAGGCCTGGGGAGCCCCCAGCTCA  
CCCATCTGTAGTCTCCCTCAAAGTCAGGGGCCACCCCATCTGAGGCAGAGAAGACTCGAGTCCAGCCCCCAGGAAG  
CCTGCTCCCCCTCTCTGGCCCCATGGTCTGCTTCATGCTTTGGGTTCAGGAGGCCAAAGCTGATGTTTCAGGCCCCAC  
CCACTCCCTACAGTCTCTCAGACCAAGGAGGGGTTTGGGTAGTAGGCCCGAGCTGCATTGCCGGCCTTCTCTGGGC  
CAACTGGCAGCCAGGAGTGGGGAGGCTTTGGCCAGGGATGCTGCCACTTGTGCGTGAGTCCGCGGCTGGCCCTT  
GGAGGTGACCATCCAGGCAGGCCTGGCTCAGACTGGAAGGGCTGGGGACCGAGGGCTCCCTGCCTCTGTTCTCC  
TTTCTGACCCACTGGGATTTGTAGCAGGCTGCCCCAGCCCCATCACCGAAACACATACTCAAGAGCTCAAATAC  
CACTGCTCCCAACAGCGTACGGATTAAGTTTCATCAGGCTTCCATCGGCTGGAGCATGGGACCATAGCCCCCTGCCC  
AGGAGCCGTACCCTCGGACCACAGTGGCTCTGTATGGCCAGGAACCTGGGACTCGAGCTTTCAGATTCTCAACTAG  
CCTTGGCAAAACAGCTGTAGGTGGCCTCCCTGACAACAGACACTCAGCCCTCCCCACCCTGGCTCTCCTTGCATT  
TCCCCATGCTCCCCACCCCCTGGCAAAAGGCTGGCCATGCTCTGTTCCCAGCAGCCGCGCAGGTTTCCCCACTGG  
CTGCAATGGCCCTACCAAAAGCCATGTTGCATATCCGTTGTAAGCACGTGCCCTGTGCCCTGTCCCCATTCTTA  
TGCCCTAGGAGGCCAAGCTGGTGTCTCTAGGAGGGCCACACAGGCACCCTGGATCCCCCAGAGAGTAGATTGGT  
GTGCTCAGGCCGAGGCTGACTCAGAGGTAGGGCAGTGGGCTCTGCAGGCCACCTGGCTGGGGTGGTGGGGGTC  
CTCTCTCCTGCCCCAGCTTCCACTCAGCCACCACAGTTGCCACACCATGGGGTGGAGACGTGGGTACCCACGGGC  
TTGGGAGCAAGCGCCTTCTGCAGCACAGGAAGCCGAAGCTGGGGTCAGGTGAGGTCGCTACCCCTGGAGGTCTGG  
CATAAGGGCCCCACCCTCAGGTCTCCTACACTGGCCCCATTTTACTTTGGGGTCCAAGGACAGGATGGTCAACAG  
GGCAGGGTGGACAGCGTGCCAGCGCCGCGCAGGGCCACCTCCCTGGGTGGATGCATCACACTAAGGAAGTGAGTG  
CCAAGGGGATTTAGTGGTGTGGTTCTTTCAAAGGGAGGTGAGGGTCAATGGGAATCTGCTCGGACACTCAACATG  
GGGGTGGGTGCACTCCTTGGAGGAGGAGGAACACGTTGAGGGGATTGTGAGGTCTTGACAAGCCACGTGGGGCA  
CCTTGGCTTCCCGGCAGGAGGTGGACACCCAGCCAGAGGCCTGGCTCAAGGTGACCTCACCTTACCATGGGCTT  
CCTGGGTGCGCGGGCCTGAGCGCAGGTGTTTTGTACATATTGGAATATGTGTTAACTTATGCCCCGCATCCCAA  
CTCACACGGAAGCACGGGTCTTGTCTCAGTCTCTTCGCTGCATTGGAAGCAGTCTCCTCTCGGGCCAGCGCCG  
GGCTGAGGTGTCCAGAGGCGGCGGCAGCTGGCAGTGCCTCAGCCCCCAAGTGTCCAGCCTGGCACTTCCCATTC  
AGGCCACCTGCTTTGGGTCAACAGTTCCTTTGCCAGCAGCATCTCCTAAATTGTAAGGACTCTGTCCACCGGGC  
CCTCCAGGGCTGTGAGGACGGAACAGGCAGGGAGTGGAGCTAACAGCTTAGTCACCAGGACCCCCAGACCTGC  
AAACGTCCCCTCCTGGAAGGGGAAGCCAGGAACAGCAGAACTGCCACAAAAACAAGGCTGTGAACCTTTTCGGGAA  
CTGGAAGTGTAACTTGAACCCAGGATTGTTTAAAGCTTTATTTATTTATAGCTTCTTCTAAAAAAAAGTGT  
GAAGAAATTTTTGGTTATTTCATACAAAAAATGAGTTGATGATGGAAGCAAGTCATAATCATCTAATTGTTT  
TTGCTAGGTCGAGAATGAATGTTAGCTGATGAAATAAACCTGACAAGG



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**FIGURE 863**

MLADLSLVGCYNLSFIPEGKRAQLLLESAKKNLRGMAFFGLTEFQRKTQYLFERTFNLKFIRPFMQYNSTRAGGV  
EVD E TIRRIEELNDLDMQLYDYAKDLFQQRYQYKRQLERREQRLRSREERLLHRAKEALPREDADEPGRVPTED  
YMSHIIEKW

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**FIGURE 864**

GGAAAAAGCGACTTGTGGCGGTCGAGCGTGGCGCAGGCGAATCCTCGGCACTAAGCAAATATGGACCTCGCGGC  
GGCAGCGGAGCCGGGCGCCGGCAGCCAGCACCTGGAGGTCCGCGACGAGGTGGCCGAGAAGTGCCAGAACTGTT  
CCTGGACTTCTTGGAGGAGTTTCAGAGCAGCGATGGAGAAATTAATACTTGAATTAGCAGAGGAACTGATTCTG  
TCCTGAGAGAAACACATTGGTTGTGAGTTTGTGGACCTGGAACAATTTAACCAGCAACTTTCCACCACCATTCA  
AGAGGAGTTCTATAGAGTTTACCCTTACCTGTGTCGGGCCTTGAAAACATTCTGTCAAAGACCGTAAAGAGATCCC  
TCTTGCCAAGGATTTTTATGTTGCATTCCAAGACCTGCCTACCAGACACAAGATTCGAGAGCTCACCTCATCCAG  
AATTGGTTTGCTCACTCGCATCAGTGGGCAGGTGGTGGGACTCACCCAGTTCACCCAGAGCTTGTGAGCGGAAC  
TTTTCTGTGCTTGGACTGTCAGACAGTGATCAGGGATGTAGAACAGCAGTTCAAATACACACAGCCAAACATCTG  
CCGAAATCCAGTTTGTGCCAACAGGAGGAGATTCTTACTGGATACAAATAAATCAAGATTTGTTGATTTTCAAAA  
GGTTCGTATTCAAGAGACCAAGCTGAGCTTCTCGAGGGAGTATCCCCGCGAGTTAGAAGTAATTTTAAGGGC  
TGAAGCTGTGGAATCAGCTCAAGCTGGTGACAAGTGTGACTTTACAGGGACACTGATTGTTGTGCTGACGTCTC  
CAAGCTTAGCACACCAGGAGCACGTGCAGAACTAATTCCCGTGTGATGGTGTGATGGATATGAGACAGAAGG  
CATTGAGGACTCCGGGCCCTTGGTGTAGGGACCTTTCTTATAGGCTGGTCTTCTTGCCTGCTGTGTTGCGCC  
AACCAACCAAGTTTGGGGGAAAGAGCTCAGAGATGAGGAACAGACAGCTGAGAGCATTAGAACCAAAATGAC  
TGTGAAAGAAATGGGAGAAAGTGTGATGAGTCAAGATAAAATCTATACCACAATCTTGTACCAGCCTGTT  
CCCTACTATACATGGCAATGATGAAGTAAACGGGGTGTCTGCTGATGCTCTTGGTGGCGTTCCTAAAGACAAC  
AGGAGAAGGGACCTCTCTTCGAGGGGACATAAATGTTTGCATTGTTGGTGACCCAAGTACAGCTAAGAGCCAATT  
TCTCAAGCAGTGGAGGAGTTCAGCCCCAGAGCTGTCTACACCAGTGGTAAAGCGTCCAGTGTGCTGGCTTAAC  
AGCAGCTGTTGTGAGAGATGAAGAATCTCATGAGTTTGTGCTTGGAGCTGGAGCTTTGATGTTGGCTGATAATGG  
TGTTGTGTTGATTGATGAATTTGATAAGATGGACGTGCGGGATCAAGTTGCTATTGATGAAGCTATGGAACAGCA  
GACCATATCCATCACTAAAGCAGGAGTGAAGGCTACTCTGAACGCCCCGACGTCCATTTTGGCAGCAGCAAAACC  
AATCAGTGGACACTATGACAGATCAAAATCATTGAAACAGAATATAAATTTGTGAGCTCCCATCATGTCGGATT  
CGATCTCTCTTTATCCTTGTGGATGAATGTAATGAGGTTACAGATTATGCCATTGCCAGGCGCATAGTAGATT  
GCATTCAAGAATTGAGGAATCAATTGATCGTGTCTATTCCCTCGATGATATCAGAAGATATCTTCTCTTGAAG  
ACAGTTTAAACCAAGATTTCCAAAGAGTCAGAGGACTTCATTGTGGAGCAATATAAACATCTCCGCCAGAGAGA  
TGGTTCTGGAGTGACCAAGTCTTCATGGAGGATTACAGTGCAGACGCTTGAGAGCATGATTGCTCTCTGAAGC  
TATGGCTCGGATGCACTGCTGTGATGAGGTCCAACCTAAACATGTGAAGGAAGCTTCCGGTTACTGAATAAATC  
AATCATCCGTGTGGAACACCTGATGTCAATCTAGATCAAGAGGAAGAGATCCAGATGGAGGTAGATGAGGGTGC  
TGGTGGCATCAATGGTCACTGCTGACAGCCCTGCTCTGTGAACGGGATCAATGGCTACAATGAAGACATAAATCA  
AGAGTCTGCTCCCAAAGCCTCCTAAGGCTGGGCTTCTCTGAGTACTGCCGAATCTCTAACCTTATTGTGCTTCA  
CCTCAGAAAGGTGGAAGAAGAAGAGGACGAGTCAGCATTAAAGAGGAGCGAGCTTGTTAACTGGTACTTGAAGGA  
AATCGAATCAGAGATAGACTCTGAAGAAGAACTTATAAATAAAAAAGAATCATAGAGAAAGTTATTCATCGACT  
CACACACTATGATCATGTTCTAATTGAGCTCACCCAGGCTGGATTGAAAGGCTCCACAGAGGGAAGTGAGAGCTA  
TGAAGAAGATCCCTACTTGGTAGTTAACCTAACTACTTGCTCGAAGATTGAGATAGTGAAAGTAACTGACCAGA  
GCTGAGGAAGTGTGGCACAGCACCTCGTGGCTGGAGCCTGGCTGGAGCTCTGCTAGGGACAGAAGTGTCTG  
AAGTGATGCTTCCAGGATTGTTTTTCAGAAACAAGAATTGAGTTGATGGTCTATGTGTCACATTATCACAGGT  
TTCATACCAACACAGGCTTCAGCACTTCTTTGGTGTGTTTCTGTCCCAGTGAAGTTGGAACCAATAATGTGT  
AGTCTCTATAACCAATACCTTTGTTTTCATGTGTAAGAAAAGGCCCATTACTTTTAAGGTATGTGCTGTCTATT  
GAGCAAATAACTTTTTTCAATTGCCAGCTACTGCTTTTATTCATCAAAATAAAATAACTTGTCTG

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**FIGURE 865**

MDLAAAEPGAGSQHLEVRDEVAEKCQKLFDFLEEFQSSDGEIKYLQLAEELIRPERNTLVVSFVDLEQFNQQL  
STTIQEEFYRVYPYLCRALKTFVKDRKEIPLAKDFYVAFQDLPTRHKIRELTSSRIGLLTRISGQVVRTHPVHPE  
LVSGTFLCLDCQTVIRDVEQQFKYTQPNICRNPVCANRRRFLDITNKS RFVDFQKVRIQETQAE LPRGSIPRSLE  
VILRAEAVESAQAGDKCFTGT LIVVPDVSKLSTPGARAETNSRVSGVDGYETEGIRGLRALGV RDLSYRLVFLA  
CCVAPTNPFRGGKELRDEEQTAESIKNQMTVKWEKVFEMSQDKNLYHNLCTSLFPTIHGNDEVKRGVLLMLFGG  
VPKTTGEGTSLRGDINVCIVGDPSTAKSQFLKHVEEFSPRAVYTSKGASSAAGLTA AVVRDEESHEFVIEAGALM  
LADNGVCCIDEFDKMDVRDQVAIHEAMEQQTISITKAGVKATLNARTSILAAANPISGHYDRSKSLKQININLSAP  
IMSRFDLFFILVDECNEVTDYAIARRIVDLHSRIEESIDRVYSLDDIRRYLLFARQFKPKISKESEDFIVEQYKH  
LRQRDGGSGVTKSSWRITVRQLES MIRLSEAMARMHCCDEVQPKHVKEAFRLNKSII RVETPDVNLDQEEEIOME  
VDEGAGGINGHADSPAPVNGINGYNEDINQESAPKASRLRGFSEYCRISNLIVLHLRKVEEEEDESALKRSELVN  
WYLKEIESEIDSEELINKKRIIEKVIHRLTHYDHVLIELTQAGLKGSTEGSESYEEDPYLVNPNYLLD

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**FIGURE 866**

CCGGGATCTCGAGATAGCCGCAGCTCTCGCGATCTTTCTGGAGCCGCACCTCCACGCGGAGTCCGAGCGCGTGTG  
CTGAGACCCAGGGTCGGGAGGGCGGAGACTGGGAGGGAGGGAGAAGCCCTTTGGCCTGCCTTACGGAAGCCTG  
CGAGGGAGGGTGGTGTCCACTGCCCAGTTCGGTGTCCCGATGCCAGCGCCAGCGCCAGCCGCAAGAGTCAGGAG  
AAGCCGCGGGAGATCATGGACGCGGCGGAAGATTATGCTAAAGAGAGATATGGAATATCTTCAATGATACAATCA  
CAAGAAAAACCAGATCGAGTTTGGTTCGGGTTAGAGACTTGACAATACAAAAAGCTGATGAAGTTGTTGGGTA  
CGTGCAAGAGTTCATACAAGCAGAGCTAAAGGGAAACAGTGTCTTCTAGTCCTACGTCAGCAGCAGTTTAAATGTC  
CAGGCTCTTGTGGCGGTGGGAGACCATGCAAGCAAGCAGATGGTTAAATTTGCTGCCAACATCAACAAAGAGAGC  
ATTGTGGATGTAGAAGGTGTTGTGAGAAAAGTGAATCAGAAAATTGGAAGCTGTACACAGCAAGACGTTGAGTTA  
CATGTTCAGAAGATTTATGTGATCAGTTTGGCTGAACCCCGTCTGCCCCCTGCAGCTGGATGATGCTGTTTCGGCCT  
GAGGCAGAAGGAGAAGAGGAAGAGAGCTACTGTTAACCAGGATACAAGATTAGACAACAGAGTCATTGATCTT  
AGGACATCACTAGTCAGGCAGTCTTCCGTCTCCAGTCTGGCATCTGCCATCTCTTCCGAGAACTTTAATTAAC  
AAAGGTTTTGTGGAATCCAACTCCTAAAAATTATTTAGCTGCCAGTGAAGGAGGAGCCAATGTTTTACTGTG  
TCATATTTTAAAAATAATGCATACCTGGCTCAGTCCCCACAGCTATATAAGCAAATGTGCATTTGTGCTGATTTT  
GAGAAGGTTTTCTCTATTGGACAGTATTCAGAGCGGAAGACTCTAATACCCATAGACATCTAAGTGTGTT  
GGTTTGGACATTGAAATGGCTTTTAATTACCATTACCACGAAGTTATGGAAGAAATTGCTGACACCATGGTACAA  
ATATTCAAAGGACTTCAAGAAAGGTTTCAGACTGAAATTCAAACAGTGAATAAACAGTTCCCATGTGAGCCATTC  
AAATTTTTGGAGCCAACCTCTAAGACTAGAATATTGTGAAGCATTGGCTATGCTTAGGGAAGCTGGAGTCGAAATG  
GGAGATGAAGACGATCTGAGCACACCAATGAAAAGCTGTTGGGTCAATTTGGTAAAGGAAAAGTATGATACAGAT  
TTTTATATTCTTGATAAATATCCATTGGCTGTAAGACCTTTCTATACCATGCCTGACCCAAGAAATCCCAAACAG  
TCCAACCTCTTACGATATGTTTCATGAGAGGAGAAGAAATATTGTCAGGAGCTCAAAGAATACATGATCCTCAACTG  
CTAACAGAGAGAGCTTTACATCATGGAATTGATTTGGAGAAAATTAAGGCTTACATTGATTTCCTTCCGCTTTGGA  
GCCCCCTCCTCATGCTGGTGGAGGCATTGGATTGGAACGAGTTACTATGCTGTTTCTGGGATTGCATAATGTTTCGT  
CAGACCTCCATGTTCCCTCGTGATCCCAAACGACTCACTCCTTAAATTCACACTTTGCCACTTAACCTCCAGTGTG  
GATGACAGAGCGAGACCCTGCCTCAAAAAAAAAAAAAAAAAAAGAAAGCCACACTTATTCTTTTCAGTAACCTGC  
TAGTGCACAGGCTGTACTTTAGGTACTTAAATATGCACTAGAATAAAATTTGCAAGGCCCTAAAATATCACTGTT  
ATTTTTGGAGTAATTCAGTATAGGTTTCGTTTTAAAGAGATTTTTATAACTTCAGACATGCATCAGTAGGAAATAA  
CTTGAGAAATTCATATGGTTATGTTACAAATTCATATTCTGTTACTACAGTAAACGTTAAGAGTTTTAAACAGTT  
AAGATTGTACAATTTTTCTTCTTTTCTATATTACAAGGGCCCCAGTGTTAATGTCTTAGATTTTCAGTATTTGAA  
CTTATTTTTTTAAATTCGTGTCATTGAGATAAGAATAATTCAGGTAGCATCTGAAATTTAATGAATGTATAATTG  
GCATATCATGGAAAATTAACCAGAAAGTATCAGTTCTTAAAGTTATGCCTAGAAATTATGTAAAGCTAAACTAC  
TGGTTAGAAAGTATTTCAGTGTAAATATTGTATTAATTTGTTAAATTCATAACTTGAATTTCAATAAAATTTTAAAG  
CT

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**FIGURE 867**

ATGACAAAGAAAAATGCCTGCATGGGCCTTGTTTTCCAGATTCAATCAAGGCTCAAAGCTTTATCTTGTCTTA  
ATAGCACCTTGCACCGATAGAGCCCCGGCAAGGCTTTGCGGGCCTTAATTATTTCCCAAGATCGATGAGACCCCT  
CAGCCCCCTGGGCAGCAGCATCCACGGCAGTTTTCCAGATGGATGAGCTGCGTCGAAAGCTGCAGAGCAGACAG  
GGATGCAGACAAGGTCCAGCAGCCCCAGCAGAGCCTGCGGCCTGCGGGTTCTCGGGCGGATGGCACTGCAAAAT  
TCAGCCCTTAATTCAATCAATATGTGCCTTCGAGGAGTTTATAGTCATGGTTTGGTATGGTTGGTATGTGATGCA  
CACAAAGCAGAGACAGCTGCATGTAGAAGGGCAGGGGAGCATGGAGGCCCCAGTACAGCCAGGAGGCCCTGGAG  
CTTCAGGCAGCAGGACATGGGTCTGGATCTGTAGTCAGAGGGGAGGTCAGGAAAGAGCTTGTACACCAGCAAAAG  
ATTGGATCCTGTGGTTCTCAAACCTTATTAGTCCTGGAGCTGTGTTTCAAGGAAATTCTGCAGAAGAACAGCAG  
TTCCCTTGCAAGGATGACCCAGGGCCCCCTGGTTCCAGCAGCTCCAAGATGAGATGGCAGAAAGGGAGAGGGGG  
AACCAGGAGAGGGAAGGAGGAAATATATTCAGTGCAGCTGCCCAACGTCCCTCAAGGACAAGCACAAGGGGT  
GGTGTGGACAAGCATAATGCAATTGGCCCCAGGGACAGGCCATAGACCCCACTTCCAAACCCCAATTCTCCTCACA  
GCCCCAGGCCTGAAGGGAACCCGCTGGATGCAAGCCGAGGTACCCAGAGATGGAGGTGGACAGACAGTGTGGG  
ATGGCCCTGCACCTGAACTCCCAGGCACTACCTTGCATTGTCTAGTTTCTAATTTTACACACACTGGGGAGAGG  
TCTGCTGTGGGCCAGGCTGGCCACCAGCGCTGGGTAAGTAGGGACTGGCCTAGCCACAGGCCTCAAGGATGCCGA  
AGTCTGGTGGGGGAGACAAGCATGGAGAGAGACAGAGATGGCAGAGGCCAGGACAGGAAGCCTCTGGGCATCCTG  
GCTGAGGACAGGGTGGCACACCCAGAGGAGAGTGAATCGTGGAAATGCCGAAAGCTAAAGAGAAGATTCCCACCA  
GAGATCACAGAGCAGAACATGCAAAAGTATAAAATTGCCCAACCAACCGTCACTCACGGACCCCTTTGTCCCCTTC  
TCTTCCCCTCCACCCCATAGAAGTTTGGCTGACAACCACGGGTTTCATACCACATTCCACATATGGGAAGAATCT  
GTGGCCCAGAGTGGTTACATTAGAGCACCTCTCCCCTGAGAGCCACACAAGGGCCCATACCACCTTCCAGTTCA  
TGGCTCCACCTTTGTCTGCTCTCACAACCTTCCCAGACCTGGCCTATACCCACATGTTATTAAATAATCTTCTA  
GATATGCCCTTTAGGATTTGCTGCAAAGACACTTGAGATAAAGTATCTGTCTAGAACCAACCTGGGATGTAGCCAAA  
GCTAAGGAATATGTCTGTTCTGTGGAGAGCAGATGATCAATAGGTGGTTCCCAGCTAATGGAGTGAAGTGGAGCA  
AGGCTCATAGGCCTTTTCAGTTCCATCAAAGGAAGATAAGTCCCCACTCATTGTCCCTGGAGGAACTGTGAGGTC  
TTCTTATATTTGCATGTATGTGCCAAAGAGAGACATGTAAAAACCAGAGCCCGGAGACATAGAGAAGATCATTCA  
AAAGCACATGCCAAGCTAAAGACAATACCAGGGACAGGACCTCATCTCTGACTCTTGGTCCAGTTCTCCCTCCA  
ACTCAGCAACAGCCTTTGGATTCCACTTGGGAAATATGGAAGTGAACAGCCAGAAGAAACCTTCCCTAACACT  
GAAACCAGTGGTGAATTTGGTAAACGCCCTGCAGAAGATATGGAAGAGGAACAAGCATTAAAGATCTAGAAAC  
ACTGATGAGATGGTTGAATTACCCATTCTGCTTCAGAGCAAGAATGCTGGAGCAGTGAAGTGGAAAGGAGGCAAG  
AATATTAAGGCTCTCCATACAGACTACAACGCCAGCATTTCAGTTCTAGACAGCAGTGGCCCCAGCATAATTG  
CATATCAGTGTGATATCGAAACAATTGGAGAAATCTGAAGAAAATCATCACTACCTTGGGAAGAGGGCCCGCAG  
TTGCCATCACCCACTGCAACCAGCCAGCTCCCGCTCGAATCTGATGCTGTGGAATACTTAAATTACCAACAATAT  
AAAGGAAGGGACTTTGACTGCGAGTTGAGGCTGTTGATTTCATCAGAGTCTAGCAGGAGGAATTATTGGGGAATGT  
TGTCTCATTTCAGTATAGAGTTGTTCTTATTGGAGGAAAACCAATAGGGTTGTAGAGTGCATAAAGATCATC  
CTTGATCTTATTCTGAGTCTCCCATCAAAGGACATGCACAGCCTTATGATCCCAATTTTACGATGAAACCTAT  
GATTATGGTGGTTTTACAATGGTGGTTGCTGACGACCGTGGACGCCAGGGGAGACCTCATGACCTATAACAGA  
AAAGGGAGACCTGGAACCGTTACGACGGCGTGGTTGATTTTCAGTGTGATGAACTTGGGGCTCTGCAATAGAT  
ACATGGAACGCATCAGAATGGCAGATGGCTTATGAACCACAGGGTGGCTCCAGATATGATTATTCCTATGCAGGG  
TGTATGGCTCATATGGTGAATCTTGGTGGACCTATTATTACTACACAAGGAGCTTTGATCAAAATTGATGAGCCT  
TTAGAAGGATCCGAAGATCGGATCATTACCATTACAGGAACACAGGACCAGATACAGAATGCACAGTATTTGCCG  
CAGAATAGTGTGAAGCAGTATTCTGGAAAGTTTTCTAA

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**FIGURE 868**

MTKKNACMGLVFQIQSRLKAFILFLIAPCTDRARQGFAGLNYFPKIDETPQPPGQQHPTAVFQMDELRRKLSRQ  
GCRQGPAPPAEPAACGFLGRMALQNSALNSINMCLRGVYSHGLVWLVCDAHKAETAACRRAGEHGGPSTARPLE  
LQAAGHGSGSVVRGEVRKELVHQKIGSCGSQTLISFGAVFQGNAAEQQFPCKDDPRAPGSQQLQDEMAERERG  
NQGEGRRKYIQSCPNVPQQAQRGGVDKHNAIGPGTGHRPHFQTPFLLTAQGLKGTWRMQSRGHPPEMEVDRQCG  
MALHPETPRHYLALSVSNTHTGERSAVGQAGHQRWVS RDWPSHRPQGCRSLVGETSMERDRDGRGQDRKPLGIL  
AEDRVAHPPEESESWKCRKLKRRFPPEITEQNMQKYKIAQPPSLTDPFVPFSSPPPHRSLADNHGFIPHFHIWEES  
VAQSGYIRAPPPLRATQGP IPPSSSWLHLCPALTTFPDLAYTHMLLNLLDMP LGFAAKTLEIKYLSEPTWDVAK  
AKEYVLFCGEQMINRWFPANGVTGARLIGLSVPSKEDKSPLIVPGGNCEVFLYLHVCAKERHVKTRARRHREDHS  
KAHAKLKTIPGTGPHLLTLGPVLPPTQQTAFGFHLGNMETEQPEETFPNTETSGEFGKRPAEDMEEQAFKRSRN  
TDEMVELPILLQSKNAGAVTGKGGKNIKALHTDYNASISVLDSSGPQHILHISADIETIGEILKKIITLLEGPQ  
LPSPTATSQLPLESDAVEYLNYYQYKGRDFDCELRLLIHQSLAGGIIGECCPHFTDRVVLIGGKPNRVVECIKII  
LDLISESPIKGHAQPYDPNFYDETYDYGGFTMVFAADDRGRPGGDLMTYNRGRPGNRYDGVVDFSADETWGS  
TWNASEWQ MAYEPQGGSRDYDYSYAGCHGSYGD LGGP IITTTQ GALIKIDEPLEGSEDRIITITGTQDQIQNAQYLP  
QNSVKQYSGKFF

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**FIGURE 869**

ATGAAGCAGTTAATTACCCCTGCTAAACAGCAGGAAGCATTGAGCAAAAACTCTGCTCACCTTCCTCAATCAGA  
GGACATTTCTGCTCATCAGTCAAGCAGGCAGACCACAGGACTCTCAGACAAAGGCTGAGAGGTAGACTGATGAGG  
AGGAGACTGTCAGTGAGCACAAAGGCCTTAAGATTAGCGACTGAAGGCTCCTGGAATGAGTATGTGGTTAGAGAC  
TGGAATACTCAGGAGTTTCCCTAGGTCTGCTCCAAATAGCACAAAGCAATGGATGATGAAGGATCCATGTTAATA  
GCAGTGGATCCACAGTGCAGATTTTCAGGTGATCTGCTCCCTACGACTCACTAATTGGAGTCCCATTGGCCCCC  
CATGTGACCCCTCTTGGATAAAAATCAAAATGGCTCTCGTCTTGTTTGTCTCCTGTTTGGCCCCAGTCAGGGCT  
GGCACAGAGTGGCAGCTCTCTGCTCTCCACAGGGCTCCCCGCTCCACCCAGCCCGATAAAGCATGCCGACTGGGC  
TACAAAGCCAAGCAAGGTTACATTATATATAGGATTTGTGTTCCGCTGAGGAGCAAGCTGGACACCACTGTGGG  
GCTCTAAGAGTCCTGAATTCGTACTGGGTTGGTGAAGATTCCACATACAAATTTTTTGAGGTTATCCTCATTGAT  
CCATTCCATAAAGCTATCAGAAGAAATCCTGACACCCAGTGGATCACCAAACAGTCCACAAGCACAGGGAATG  
CGTGGGCTGACATCTGCAGGCTTGA

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**FIGURE 870**

MKQLITPAKQQEAFEQKLCSPSSIRGHFCSSVKQADHRTLQRLRGRLMRRRLSVSTKALRLATEGSWNEYVVRD  
WNYSVSLGLLQIAQAMDEGSMLIAVDPQCRFSGDLLPYDSLIGVPLAPHVTLLDKNQNGSRLVCFSCLPVRA  
GTEWQLSALHRAFRSTQPDKACRLGYKAKQGYIIYRICVRREEQAGHHCGALRVLSYWVGEDSTYKFFEVLID  
PFHKAIRRNPDQTQWITKPVHKKHREMRGLTSAG



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**FIGURE 871**

ATGTGGGGCGACCTCTGGCTCCTCCCGCCTGCCTCTGCCAATCCGGGCACTGGGACAGAGGCTGAGTTTGAGAAA  
GCTGCAGAGGAGGTTAGGCACCTTAAGACCAAGCCATCGGATGAGGAGATGCTGTTCATCTATGGCCACTACAAA  
CAAGCAACTGTGGGCGACATAAATACAGAACGGCCCGGGATGTTGGACTTCACGGGCAAGGCCAAGTGGGATGCC  
TGGAATGAGCTGAAAGGGACTTCCAAGGAAGATGCCATGAAAGCTTACATCAACAAAGTAGAAGAGCTAAAGAAA  
AAATACGGGATATGAGAGACTGGATTGTTTACTGTGCCATGTGTTTATCCTAAACTGAGACAATGCCTTGTTTT  
TTTCTAATACCGTGGATGGTGGGAATTCGGGAAAATAACCAGTTAAACCAGCTACTCAAGGCTGCTCACCATACG  
GCTCTAACAGATTAGGGGCTAAAACGATTACTGACTTTCCTTGAGTAGTTTTTATCTGAAATCAATTAAAAGTGT  
ATTTGTTACTTT

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**FIGURE 872**

MWGDWLWLPASANPGTGTEAEFEKAAEEVRHLKTKPSDEEMLFIYGHYKQATVGDINTERPGMLDFTGKAKWDA  
WNELKGTSKEDAMKAYINKVEELKKKYGI

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**FIGURE 873**

GTTTAGGGGCTGGTACAAAGGATGAATTGCACATTGTTGAAGTAGAGGCAATGAATTACAAAGGCAGTCCAATTA  
AAGTAACACTGGCAACTTTGAAAATGTCTGTACAGCCAAAGGATTCCCTTGGAGGCTTTGAAATCACACCACCAG  
TGGTCTTACGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTAGCTGTGGAGGAAGATG  
CAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAAACTCTTAAGTGTATCTGGAAAGCGGTCGGCCCGTGGAGGTG  
GTAGCAAGATTCCACAGAAAAAAGTAAAGTTGCTGCTGATGAAGATGAAGATGATGATGATGAGGATTTTGATG  
ATGGGGAAGCTGAAGAAAAAGCGCCGGTGAAGAAATCCATACGAGATACTCCAGCCAAAAATGCACAAAAGTCAA  
ATCAGAATGGAAAAGACTCAAAACCGTCAACACCAAGATCAAAAGGACAAGACTCCTTCAAAAAAACAGGAAAAA  
ACTTCTAAACACCGAAAGGACCTAGTTCCATAGAAGACATTAAAGCGAAATGCAAGCAAGTATAGAAAAAGCG  
CATTGAACAGTCCTGGGCACTGCTGGTAAATTAAGCCCAAAGATGGGGAGAAAGGAAAAGGAGAGACAAATATAG  
TCCATACTGAG

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**FIGURE 874**

MNYKGSP IKVTLATLKMSVQPKDSLGGFEITPPVVLRLKCGSGPVHISQHLVAVEEDAEESEDEEEEDVKLLSVS  
GKRSARGGGSKIPQKKVKVAADEDEDDDDDEFDDGEAEKAPVKKSIRDTPAKNAQKSNQNGKDSKPSTPRSKGQ  
DSFKKTGKNF

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**FIGURE 875**

AGCGGGTTTGC GGGAGCGCCGCGTGGTTAGCGTCGGCGGCTTTTGGCATGCGGACTTTTTCTGGCCCGGCTGGGC  
CAATCCTGTGCGTTAATCCGCAGGAAGATGTGAGTTTCAAAAGGAGGTGGCGCAGGTTTCGCAAGCGCATAACCC  
AGCGAAAAAACAAGAACAACTTACTCCTGGAGTAGTCTATGTGCGCCACCTACCTAACCTACTTGACGAAACCC  
AGATCTTTTCATATTTCTCCAGTTTGGCACTGTGACACGGTTTCAGGCTGTCCAGAAGTAAAAGGACTGGAAATA  
GCAAAGGCTATGCATTGTGGAGTTTGAGTCTGAGGATGTTGCCAAAATAGTTGCTGAAACAATGAACAACCTACC  
TGTTTGGTGAAAGACTCTTGGAGTGTCATTTTATGCCACCTGAAAAAGTACATAAAGAAGCTCTTTAAAGACTGGA  
ATATTCCATTTAAGCAGCCATCATATCAATCAGTGAAACGGTATAATCGGAATCGGACACTAACACAAAAGCTAC  
GGATGGAGGAGCGAATTTAAAAAGAAAGAAAGATTACTCAGGAAGAAATTAGCTAAAAAGGAATTGACTATGATT  
TTCCTTCTTTGATTTTACAGAAAACGGAAGTATTTCAAAAATAATCGTCAGACGCTACAAAAGGCCAGGTTT  
TACGTAAGAAGAAGAAAAAGTTTCAGGTAAGTCTTGACACTCCTGAGAAGACTGTGGATAGCCAGGGCCCCACAC  
CAGTTTGTACACCAACATTTTTGGAGAGGCGAAAATCTCAAGTGGCTGAAGTGAATGATGATAAAGATGATG  
AAATAGTTTTCAAACAGCCCATATCCTGTGTAAGAAGAAATACAAGAGACTCAAACACCTACACATTCACGGA  
AAAAAGACGAAGAAGCAGCAATCAGTGATTTTCAATGTATTATTTCTTTGAAAAATATAATATTTTTATGA  
GAGTGGACTTTGTATTTCACTAGGTACAATGGAATACAACCTTTGACAAGATTTTCAGAGGAAAAATACACTGTT  
TGGTCAAGTTAAGGAAAGCAGTGTGTAATTTTGGATTGCCCTTGGCTGAAATACAGGGGTGCATACCATCT  
TGCAGTGGCTTGGCTGACATTGCCTCTTTGTCTGGCCTCTAGTTTTCTTTTGATATTTTCATAGCTCTCCTTAGT  
TTACTCTGCCTGGATAGAAAGTTGACCACTAACTGCAGGTTTAAAGTACTAACTGCAGCCTTTTCTGTGCCAGC  
AATTAAAGACCACCAATCTTGTGTTGTCCATCTACATGGTTTGTGCGGGACATTTAACTCATGGAGGTGCTTTAGA  
TTTCAACATCAGATGGTTGAAGCTGGAAGTTTAATTATATGTAGAGTGAGAAGGCAGTTCCAGTTTGTAGCACAGA  
TTTGTTTATGTGTTTCAAGTTTAAATAGAGATTCAAAAATGACTCATTTTTACCAATAATGTTAAATTAGTTTTGG  
TTGTGCTAGCATGAATTAATAACCACCATTTTATACCAGTATCATCAGTGAAGAATTGTATTTCAAGATTCAAAC  
AATAACCAGCAATTAACTTTTTTCTACAATGTATTTGTTTGGCAGTAGGACTTGGGAGTCATTGGAAAAA  
ATAATAAATTTTCCCTTCATTAACAAAAA

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**FIGURE 876**

MATFSGPAGPILSLNPQEDVEFQKEVAQVRKRITQRKKQEQLTPGVVYVRHLPNLLDETQIFSYSQFGTVTRFR  
LSRSKRITGNSKGYAFVEFESEDVAKIVAETMNNYLFGERLLECHFMPPEKVHKELFKDWNIPFKQPSYQSVKRYN  
RNRTLQKLRMEERFKKKERLLRKKLAKKGIDYDFPSLILQKTESISKTNRQTSTKGQVLRKKKKKVSGLDTPE  
KTVD SQGPTPVCTPTFLERRKSQVAELNDDDKDEIVFKQPI SCVKEEIQETQTPTHSRKKRRRSSNQ

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**FIGURE 877**

CCGCGGCGTCCACACTCGCCGCGCGCGCGCGCGCGCGGCTGGACCTTGCTGGCCCGCGGCGCCATGAGCCGCAGC  
CTGGACTCGGCGCGGAGCTTCTGAGCGGCTGGAAGCGCGGGCGGCGGGAGGGGGCAGTCTCGCCGGCGAG  
TTCAGCGACATCCAGGCTGCTCGGCCGCTGGAAGGCTGACGGCGTGTGCTCCACCGTGGCCGGCAGTCCGCCA  
GAGAAGCTGAGGAAGAACCCTACAAAGACGTGCTGCCTTATGATCAGACGCGAGTAATCCTCTCCCTGCTCCAG  
GAAGAGGGACACAGCGACTACATTAATGGCAACTTCATCCGGGGCGTGATGGAAGCCTGGCCTACATTGCCACG  
CAAGGACCTTGCCTCACACCCTGCTAGACTTCTGGAGACTGGTCTGGGAGTTTGGGGTCAAGGTGATCCTGATG  
GCCTGTCGAGAGATAGAGAATGGGCGGAAAAGGTGTGAGCGGTACTGGGCCAGGAGCAGGAGCCACTGCAGACT  
GGGCTTTTCTGCATCACTCTGATAAAGGAGAAGTGGCTGAATGAGGACATCATGCTCAGGACCTCAAGGTCACA  
TTCCAGAAGGAGTCCCGTTCTGTGTACCAGCTACAGTATATGCTCGGCCAGACCGTGGGGTCCCCAGCAGTCTT  
GACCACATGCTCGCCATGGTGGAGGAAGCCCGTCCGCTCCAGGGATCTGGCCCTGAACCCCTCTGTGTCCACTGC  
AGTGCGGGTGTGGGCGAACAGGCGTCTGTGCACCGTGGATTATGTGAGGCAGCTGCTCCTGACCCAGATGATC  
CCACCTGACTTCAGTCTCTTTGATGTGGTCTTAAAGATGAGGAAGCAGCGGCTGCGGCCGTGCAGACAGAGGAG  
CAGTACAGGTTCTGTACCACAGGTTGGCTCAGATGTTCTGCTCCACACTCCAGAATGCCAGCCCCACTACCAG  
AACATCAAAGAGAATTGTGCCCCACTCTACGACGATGCCCTCTCTCTCCGACTCCCCAGGCACTTCTCGCCATA  
CCCCGCCCACCAGGAGGGGTCTCAGGAGCATCTCTGTGCCCGGGTCCCCGGGCCACGCCATGGCTGACACCTAC  
GCGGTGGTGCAGAAGCGCGGGGCTCCAGCGGGCGCGGGAGTGGGACGACAGACGGGGACGGGGACGGGGACGGGG  
GCGCGCAGCGCGGAGGAGGCGCGCTCTACAGCAAGGTGACGCCGCGCGCCAGCGACCCGGGGCGCACGCGGAG  
GACGCGAGGGGACGCTGCCCTGGCCGCGTCTCTGTGACCAAAGTCTGCCGATCTGGCGCTACGAGGACGTG  
GCGGGTGGAGCTCAGACCGGTGGGCTAGGTTTCAACCTGCGCATTTGGGAGGCCGAAGGTCCCCGGGACCCGCT  
GCTGAGTGGACCCGGGTGTAAGTCTAACGCCAGTTCTGCTGCTGCTCTGTGAGCTCGGACTGCTGATGCCC  
CGGTGCTGCTGAGCGCCGTGCGCAGAATGGAACAGTGGGCTGGATCAAAGTTAAAGTTTCTCAGGGTGGGAAA  
TGTGGGGGCTTTGCCCAATGACTGTAGCATTCAAGGCTTGAGGCTGGAGGAGGTAGCTAGGGTATAGTGGTGG  
TGAGGCTGCACAGACAGATTCAAGAAAGAAGATCAGGAAGGGCATGACCCCTGAGTTATGAAGGGGAGAAGGG  
ACAGATGAGCTTCCGGAGACTGCTCTCTCACCACACAGCACTAGTCCATCTCAGCACCTGAGCCTCCCTCACT  
TGGACACTCAGGGGACCACACAGAGAAGTGGATGGACACTTCGCCATCCAGGCAGAACTAAGCCAGGCATAACCA  
CAGCCAAGCAGATTAACCCAGGCAGACCGATAAAAAGACCTCCAGATAGGCAGACAGACAGATGGACCACCAAC  
CTGGACAGACAGCCAAAGCTTCAGAGATACAGTCCACAGGTGGACAAAGGGATCCCCAGCCAGAGAGAGAGAC  
CAGCCAACAGCTTGATAGACAGTGCAGCCAGAGAGACCACCAACAGAGCCCCCAAAGACAGACATCTCTGCT  
AGCTGGACAGCCAGGTGGACCCCTAAGTTAGATTACTAGACAGATATAAACAGATCCCCTGCTGAACAGATACA  
CAGAGTTCTCAGACCCACCCCAACCTCAGGTGGGCTGGCTGGCTGACAGACCTTCTGGCCAGACAGACTCCTA  
ACCAACCAGATGGACTGCCAGACAGGCAGACATCAGCCATGGAATCCTGACATCCAGCCAGCCGGCCAGACT  
CTCATCTTGATGTCTTGATGGATGGACCCAGCTAGTCAGACATGATCCTCCAGATTGACAGACAAGTCCCCAA  
ATGAGTACACATCTCCAGCTATTCAGACAGATGGACCCCAAGTATCAGGACCTATCTAGGCAGACCCAGCCA  
GACCCCGCCAGACAGACTCCCAACCAGACTGACCCCTTACTATTACACAGCCTGCCGAGTAGCTGGGACTACA  
GGTCTAATTTTTTTTTTTTTAAGAAATGAGTTTTTGCCATGTTGCCAGACTGGTCTTGAATCCCAACCTCAA  
GCAATCCTCCTGCCTCAGCCTCCCAAGTGTGAGATTACAGGTGTGAGCCACCAGGCTCAGCCCCCTAAGATTT  
GAAACACTTTAAATGGCCCATGGTAGGGTCTCTGCTAGGATAAAACATTAAAGCGGCTGTTAAAGAAATAAAGG  
AGGACACGTCTCTGTGC

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**FIGURE 878**

TGGAAGCGGCACTCAAGATGCTGCGCCGCGAGGCCCGCCTGCGCCGCGAGTACCTGTACCGCAAGGCCCGGGAGG  
AGGCGCAGCGCTCAGCCCAGGAGAGGAAGGAGCGGCTGCGGCGCGCGCTGGAAGAAAACCGCCTGATTCCCCTG  
AGTTACGCCGAGAGGCTCTGGCCTTACAGGGGTCCCTGGAGTTTGATGATGCTGGAGGTGAAGGTGTGACCAGCC  
ACGTGGATGATGAATACCGATGGGCAGGAGTCGAGGATCCCAAGGTTATGATCACTACCTCCCGAGACCCAGTT  
CCCGCCTCAAGATGTTTGCAAAGGAGCTGAAGCTGGTGTTCCTGGGCGGCCAGCGAATGAACCGAGGTGACATG  
AAGTGGGGGCACTGGTGGGAGCCTGCAAAGCCAACGGCGTCACCGATCTGCTGGTCGTTACGAGCATCGGGGCA  
CACCTGTGGGGCTCATCGTCAGCCACCTGCCCTTTGGTCCTACTGCCTACTTCACGCTGTGCAATGTGGTCATGC  
GGCATGACATCCCAGACCTGGGCACCATGTGCGAGGCCAAGCCCCACCTCATCACACAGGCTTCTCCTCCCGCC  
TGGGCAAGCGGGTCTCTGACATCCTCCGATACCTATTTCCCGTGCCCAAAGATGACAGCCACCGGGTCATCACCT  
TCGCAAACCAGGACGACTACATATCATTCCGGCACCATGTGTATAAGAAGACAGACCACCGCAACGTGGAGCTCA  
CTGAGGTGCGGCCCCGCTTTGAGCTGAAGCTGTACATGATCCGTCTGGGCACGCTGGAGCAGGAGGCCACAGCAG  
ACGTGGAGTGGCGCTGGCACCCCTTACACCAATACCGCACGCAAGAGAGTCTTCTGAGCACCGAGTCAGCACACT  
CACCCTCAGTCAGGACATGGACTTGGAATCAGGATGGGGCTGTCATAGACAGACCCACCAGTAGGAACTGTCA  
CAGAAATGGCCTGCTGAACTGGGATGTGGAATGTGGCGGGTGGAGAGGTCTGAATAAACCGTCTGTGTCATGGCA  
AAAAAAAAAAAAAAAAAAAAA



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**FIGURE 879**

MLRREARLRREYLYRKAREEAQRSAQERKERLRRALEENRLIPTELRREALALQGSLEFDDAGGEGVTSHVDDEY  
RWAGVEDPKVMITTSRDPSSRLKMFALVFPVGAQRMNRGRHEVGALVRACKANGVTDLLVVHEHRGTPVGLI  
VSHLPFGPTAYFTLCNVVMRHDIPDLGTMSEAKPHLITHGFSSRLGKRVSDILRYLFPVPKDDSHRVITFANQDD  
YISFRHHVYKKTDRNVELTEVGPRFELKLYMIRLGTLEQEATADVEWRWHPYTNARKRVFLSTE

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**FIGURE 880**

GGCGGCGGCAGCGGGTTCGGTTGCGCGTGACGCACGGGGTGGGAGCGGAGCCCAGGCCGGGAGCAGGCGCCTCTG  
CCAGAGACCATGGGGAACGTGTTGGCCGCCAGGTGCGCGCCCGCAGGGCCGCCACCGCCGCCTGCGCCGGCCCTC  
GTGGAGCTGCCGCCACCTCCGCCCTCGCCGCCGGGCTTCACGCTGCCGCCGCTGGGAGGCGGCCTGGGCGCCGGC  
ACCAGTACGAGTCGAGGTTCCGGAAGTACCCCCGGGGCTGCAACTGCCAGCGCCTCAGGGGCGCCGAGGATGGG  
GCCTGCGGCTGCCTGCCCCAACCCGGGCACATTCGGGGAGTGCCACCGGAAGTGCAAGGAGCTGTTTCCCATTAG  
ATGGAGGGTGTCAAGCTCATAGTCAACAAAGGGTTGAGTAACCATTTCCAGGTGAACACACAGTAGCCCTCAGC  
ACAATCAGGGAGTCCAGCTACCACTTCGGGGTCACGTATGTGGGGACAAAGCAGCTGAGTCCCACAGAGGCGTTC  
CTTGATTGGTGGGTGACATGGACAACAGCGGCAGTCTCAACGCTCAGGTCATTACCCAGCTGGGCCCCCGCCTC  
AGGTCCAAGATGGCCATCCAGACCCAGCAGTCGAAGTTTGTGAACTGGCAGGTGGACGGGGAGTATCGGGGCTCT  
GACTCACAGCAGCCGTAACCTGGGGAAACCCAGACGTCCTCGTGGGTTTCAGGAATCCTCGTAGCCCACTACCTC  
CAGAGCATCACGCCTTGCCTGGCCCTGGGCAGAAATGCTGGTCTACCAACAGCAGCCTGGGGAGGAGGGCACTGTC  
ATGTCTCTAGCTGGGAAATACACATTGAACAACCTGGTGGCAACGGTAACGTTGGGCCAGGCGGGCATGCACGCA  
ACATACTACCACAAAGCCAGTGACCAGCTGCAGGTGGGTGTGGAGTTTGAGGCCAGCACAAGGATGCAGGACACC  
AGCGTCTCCTTCGGGTACCAGCTGGACCTGCCCAAGGCCAAAGGCTCTGTGGATAGCAACTGGATCGTGTGTGCC  
ACGTTGGAGAAGAAGCTCCCGCCCTGCCCCTGACACTGGCCCTTGGGGCCTTCCTGAATCAC

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**FIGURE 881**

AAGAACTGGCCTGTACATTTTCAAGGAATTCTTGAGAGGTTCTTGGAGAGATTCTGGGAGCCAAACACTCCATTG  
GGATCCTAGCTGTTTTAGAGAACAACCTTGTAATGGAGCCTTCATCTCTTGAGCTGCCGGCTGACACAGTGCAGCG  
CATTGCGGCTGAACTCAAATGCCACCCAACGGATGAGAGGGTGGCTCTCCACCTAGATGAGGAAGATAAGCTGAG  
GCACTTCAGGGAGTGCTTTTATATTCCCAAAATACAGGATCTGCCTCCAGTTGATTTATCATTAGTGAATAAAGA  
TGAAAATGCCATCTATTCTTGGGAAATTCTCTTGGCCTTCAACCAAAAATGGTTAAAACATATCTTGAAGAAGA  
ACTAGATAAGTGGGCCAAAATAGCAGCCTATGGTCATGAAGTGGGGAAGCGTCTTGGATTACAGGAGATGAGAG  
TATTGTAGGCCTTATGAAGGACATTGTAGGAGCCAATGAGAAAGAAATAGCCCTAATGAATGCTTTGACTGTAAA  
TTTACATCTTCTAATGTTATCATTTTTTTAAGCCTACGCCAAAACGATATAAAAATTCTTCTAGAAGCCAAAGCCTT  
CCCTTCTGATCATTATGCTATTGAGTCACAACCTACAACCTTACGGACTTAACATTGAAGAAAGTATGCGGATGAT  
AAAGCCAAGAGAGGGGGAAGAAACCTTAAGAATAGAGGATATCCTTGAAGTAATTGAGAAGGAAGGAGACTCAAT  
TGCAGTGATCCTGTTTCAGTGGGGTGCATTTTTACACTGGACAGCACTTTAATATTCCTGCCATCACAAAAGCTGG  
ACAAGCGAAGGGTTGTTATGTTGGCTTTTGATCTAGCACATGCAGTTGGAAATGTTGAACTCTACTTACATGACTG  
GGGAGTTGATTTTGCTGCTGGTGTTCCTACAAGTATTTAAATGCAGGAGCAGGAGGAATTGCTGGTGCCTTCAT  
TCATGAAAAGCATGCCCATACGATTAAACCTGCATTAGTGGGATGGTTTGGCCATGAACTCAGCACCAGATTTAA  
GATGGATAACAACTGCAGTTAATCCCTGGGGTCTGTGGATTCCGAATTTCAAATCCTCCCATTTTGTGGTCTG  
TTCCTTGCACTAGTTTATAGATCTTTAAGCAAGCGACAATGAAGGCATTGCGGAAAAATCTGTTTGTCTAAC  
TGGCTATCTGGAATACCTGATCAAGCATAACTATGGCAAAGATAAAGCAGCAACCAAGAAACCAGTTGTGAACAT  
AATTACTCCGTCTCATGTAGAGGAGCGGGGTGCCAGCTAACAAATAACATTTTCTGTTCCAAACAAGATGTTTT  
CCAAGAACTAGAAAAAAGAGGAGTGGTTTGTGACAAGCGGAATCCAAATGGCATTGAGTGGCTCCAGTTCCTCT  
CTATAATTCTTTCATGATGTTTATAAATTTACCAATCTGCTCACTTCTATACTTGACTCTGCAGAAACAAAAA  
TTAGCAGTGTTCCTAGAACAACTTAAGCAAATTATACTGAAAGCTGCTGTGGTTATTTAGTATTATTCGATT  
TTAATTATTGAAAGTATGTCACCATTGACCACATGTAACATAACAATAAATAATATACCTTAC

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**FIGURE 882**

MEPSSLELPADTVQRIAAELKCHPTDERVALHLDEEDKLRHFRECFYIPKIQDLPPVDLSLVNKDENAIYFLGNS  
LGLQPKMVKTYLEEEELDKWAKIAAYGHEVGKRPWITGDESIVGLMKDIVGANEKEIALMNALTVNLHLLMLSFFK  
PTPKRYKILLEAKAFPSDHYAIESQLQLHGLNIEESMRMIKPREGEETLRIEDILEVIEKEGDSIAVILFSGVHF  
YTGQHFNIPAITKAGQAKGCYVGFDLAHAVGNVELYLHDWGVDFAWCSYKYLNAGAGGIAGAFIHEKHAHTIKP  
ALVGWFGHELSTRFKMDNKLQLIPGVCGRISNPPILLVCSLHASLEIFKQATMKALRKKSULLTGYLEYLIKHN  
YGKDKAATKKPVVNIITPSHVEERGCLTITFSVPNKDVFQELEKRGVVCDKRNPNGIRVAPVPLYNSFHDVYKF  
TNLLTSILDSAETKN

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**FIGURE 883**

GTGTACGGTCCGCAGCGGCAGGTGAAGTCTAGCAGAGGACGCGGCCAGGCGATTCCGGTGAAGCGATTCTGCAGG  
CGTTGGTTCCCTCTTTGACCTGGTAAATGCAGGCTTTTATGCGAGAGGATTTGAATTTGTTGAAATGAGCAGTC  
GTAAATCAAAGAGTAACAGCTTAATTCACACAGAGTGCCTTTCACAGGTACAAAGAATTTTACGTGAAAGATTTT  
GTCGTCAGAGTCCACATAGTAACCTATTTGGAGTGCAAGTACAATACAAACACTTAAGTGAGCTGCTGAAAAGAA  
CTGCTCTCCATGGAGAGAGTAACCTCTGTCTTATTATCGGACCCCGAGGATCAGGAAAACTATGTTAATAAATC  
ATGCTTTGAAAGAACTCATGGAAATAGAAGAAGTGAGTGAAAATGTATTACAAGTTCACCTTAAATGGACTGCTGC  
AGATCAATGACAAAATCGCCCTAAAGGAAATCACAAAGGCAGTTAAATCTGGAAAATGTAGTTGGAGATAAAGTTT  
TTGGAAGCTTTGCTGAAAACCTTTTCATTTCTTCTGGAAGCTTTAAAAAAGGTGACCGAACTAGCAGTTGCCAG  
TGATCTTCATATTAGATGAATTTGATCTTTTCTGCTCATCATAAAAACCAACACTTCTCTATAATCTTTTGGACA  
TTTCTCAGTCTGCACAGACCCCAATAGCAGTTATTGGTCTTACATGTAGATTGGATATTTTGGAACTCTTAGAAA  
AAAGAGTGAAGTCAAGATTTTCTCACCAGGCAGATACACTTAATGAATTCATTTGGTTTTCCACAGTATGTTAAAA  
TATTTAAAGAACAGTTATCTCTACCTGCAGAGTTTCCAGACAAGGTTTTTGTGAGAAGTGAATGAAAATGTTT  
AGTATCTCTCAGAAGATAGAAGTGTGCAAGAAGTACTACAGAAGCATTCAATATCAGCAAAAACCTGCGGTCAT  
TACACATGCTATTGATGCTTTGCTTTAAATCGAGTAACAGCATCGCACCCATTTATGACTGCCGTAGATCTAATGG  
AAGCAAGCCAACCTGTGTAGCATGGACTCGAAAGCAAATATTGTACATGGTCTATCAGTCTTGGAAATCTGTCTTA  
TAATAGCAATGAAACATTAAATGACATCTATGAGGAAGAGCCATTTAATTTCAAATGGTCTATAATGAGTTTC  
AGAAGTTTGTTCAAAAGGAAAGCACATTCGGTTTATAATTTGAAAAACCTGTGTGTCATGAAGGCTTTTGAACACT  
TGCAGCAATTAGAATTAATAAAGCCCATGGAAAGAACTTCAGGAAATTCACAGAGAGAGTACCAGCTGATGAAAC  
TGCTTTTGGATAATACTCAAATTATGAATGCTCTGCAGAAATATCCCAACTGTCTACAGATGTGAGGCAGTGGG  
CAACATCCTCACTAAGCTGGTTATGAATATAACCAGTGACTTCAACTTTGGCATTTCATTCATACTTCTGTAGAG  
AACGAAAACTATTGTCCATTAAATGATATGCTAAACATTCTATAAACATTCTTGATTTATGTGAGACTTGCC  
CATCTACTGTCTTGGCTGTCTTGCCTTTTAAATCATGAACAGTTACATGATTATAATTTCACTGATTGAGATT  
ACTTTGTAAGTAGCTGTTTCAAGAATAAAATATGACTGTTTTAGGGACTAGACCATGTGCTTTTTTAACACTTA  
TATATATAATGGTCTATTTGAAGAGCTCACTTCAACCTAACAGCTAGATGTCTTTACAAACCTTAAACCAAAGGA  
GTAAAAAACAATGGTAAGCACTGAAGTATAATAAGTAACCTTTGGTACAGCAGGTTTGTGTCAGTGTTTTTT  
CTGTCCACATGCAAATTTGGATTCTATCCCAGACCCAGGTTTTCTAGTTCAGAAGACTAACAGCTTAGTCAGA  
AGATGGTTCCATGGAAGAAAAAGGCCAAGGAGTTTGAAGATTTTCTTCTAGACATCTCAAAATGTGGTACTCAT  
ACCATCCACATCAGAATCCCTTGTAGGATTTCTAAAATTACAGATTGTTGAGCCTACCATAGGTCAAAAGGACT  
GGAATTTTCTTCTTAACAAGTATAGTCATGGCACACGTAACATTTTGGTCAATGACATTGTATAAAGGGTGGT  
CTCATAAGATTATACCATATTTTACTGTACCTTTTCTATGTCTAAATATACAAATGTTTTACCATTG

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**FIGURE 884**

MSSRKSKSNSLIHTECLSQVQRILRERFCRQSPHSNLFQVQVQYKHLSELLKRTALHGESNSVLIIGPRGSGKTM  
LINHALKELMEIEEVSENVLQVHLNGLLQINDKIALKEITRQLNLENVVGDKVFGSFAENLSFLLLEALKKGDRS  
SCPVIFILDEFDLFAHHKNQTLLYNLFDISQSAQTPIAVIGLTCRLDILELLEKRVKSRFSHRQIHLMNSFGFPQ  
YVKIFKEQLSLPAEFPDKVFAEKWNENVQYLSEDRSVQEVQKHFNISKNLRLHMLLMLALNRVTASHPFMTAV  
DLMEASQLCSMDSKANIVHGLSVLEICLI IAMKHLNDIYEEEPFNFMVYNEFQKFVQRKAHSVYNFEKPVVMKA  
FEHLQQLELIKPMERTSGNSQREYQLMKLLLDNTQIMNALQKYPNCPTDVRQWATSSLSWL

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**FIGURE 885**

ATTCGGCACCGCAGCGTAGGTGCTACCACCGCTGCCGTCGCCGCCGCGCCATTTTGATGGCAGGAAGAGTCCGGTTC  
TGGGACAGCTGGAGACAGTGGTGGTGACTGAAATAACTTTACCAAAGGAAAGCTATTTTGCGAACTATCTTCTCC  
AGCGGAGATGGCCAATGTGCTTTGTAAACAGAGCCAGACTGGTTTCCTATCTCCCAGGATTTTGCTCTTTAGTTAA  
AAGGGTTGTCAATCCCAAAGCCTTTTCGACTGCAGGATCATCAGGTTCCGATGAGTCTCATGTGGCTGCTGCACC  
TCCAGATATATGCTCTCGAACAGTGTGGCCTGATGAAACTATGGGACCCTTTGGACCTCAAGATCAGAGGTTCCA  
GCTTCCTGGGAACATAGGTTTTGATTGTACCTCAATGGGACTGCTTCACAGAAGAAAAGCCTGGTTTCATAAAAC  
TTTGCTGATGTTCTAGCAGAACCCTTTATCAAGTGAAAGACATGAGTTTGTGATGGCACAATATGTGAATGAATT  
TCAGGGTAATGATGCACCTGTTGAACAAGAAATTAACAGTGCAGAAACTTACTTTGAAAGTGCCAGAGTAGAGTG  
TGCAATACAAACATGTCCAGAATTGCTGCGAAAAGATTTTGAATCACTGTTTCCAGAAGTAGCTAATGGCAAAC  
AATGATTCTGACTGTAAACAAAAAACTAAGAATGATATGACTGTTTGGAGTGAAGAAGTAGAAATTGAAAGAGA  
AGTGCTCTTAGAAAAGTTCATCAATGGTGCTAAGGAAATTTGCTATGCTCTTCGAGCTGAGGGTTATTGGGCTGA  
CTTTATTGACCCATCATCTGGTTTGGCATTTTTTGGACCATATACAAACAACACTCTTTTTGAAACTGATGAACG  
CTACCGACATTTAGGATTCTCTGTTGATGACCTTGGATGCTGTAAAGTGATTGTCATAGTCTCTGGGGTACCCA  
TGTAGTTGTAGGGAGTATCTTCACTAATGCAACACCAGACAGCCATATTATGAAGAAATTAAGTGGAAATTAGCA  
GAAATATCCATTCATTTGCTGTACTATTTGTATGTAATTTTGGGTTGATCTATAAAACACTGTCAGACTAAAGTT  
TTTTAAATATACTTATTTCTAAGTATTTATTTTCAGCATTTATGAATTTGCAACATTGGCAAGTGATTGGGATTT  
TAAATTTGCAATGTTCAATTTATTCATATCATTGAATACACGTTGAACACATCCACATTGTATAGGATGTGGTAA  
TTAGCTTGTAACCAGGGTATGATCTGCTATTGTTATTTCTCCTCTTTATTGGAAAAAGGCCTCAGTTTTAATTAT  
TTTCTTCCCAAAATAAATCACACATTTGGTTACAAAAA

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**FIGURE 886**

MANVLCNRARLVSYLPGFCSLVKRVVNPKAFSTAGSSGSDESHVAAAPPDICSRTVWPDETMGFFGPDQRFQLP  
GNIGFDCHLNGTASQKKSLVHKTLPDVLAEP LSSERHEFVMAQYVNEFQGNDAPVEQEINSAETYFESARVECAI  
QTCPELLRKDFESLFPEVANGKLMILVTQKTNDMTVWSEEVEIEREV LLEKFINGAKEICYALRAEGYWADFI  
DPSSGLAFFGPYTNNTLFETDERYRHLGFSVDDLGCCKVIRHSLWGTHVVVGSIFTNATPDSHIMKKLSGN



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**FIGURE 887**

TATCGCAAGCAGCAGTCTCTGGTCCCAGCCCACCCCATGGCCCCCTCCCAGTCCCAGCACCACCAGCAGTAATAAC  
AACAGTAGCAGCAGTAGCAACTCAGGATGGGATCAGCTCAGCAAAACGAACCTCTATATCCGAGGACTGCCTCCC  
CACACCACCGACCAGGACCTGGTGAAGCTCTGTCAACCATATGGGAAAATAGTCTCCACAAAGGCAATTTTGGAT  
AAGACAACGAACAAATGCAAAGTTATGGTTTTGTGCGACTTTGACAGCCCTGCAGCAGCTCAAAAAGCTGTGTCT  
GCCCTGAAGGCCAGTGGGGTTCAAGCTCAAATGGCAAAGCAACAGGAACAAGATCCTACCAACCTCTACATTCT  
AATTGGCCACTCTCCATGGATGAGCAAGAACTAGAAAATATGCTCAAACCATTGGACAAGTTATTTCTACAAGG  
ATACTACGTGATTCCAGTGGTACAAGTCGTGGTGGTGGCTTTGCTAGGATGGAATCAACAGAAAAATGTGAAGCT  
GTTATTGGTCATTTTAATGGAAAAATTTATTAAGACACCACCAGGAGTTTCTGCCCCACAGAACCTTTATTGTGT  
AAGTTTGTCTGATGGAGGACAGAAAAAGAGACAGAACCCAAACAAATACATCCCTAATGGAAGACCATGGCATAGA  
GAAGGAGAGGTGAGACTTGCTGGAATGACACTTACTTACGACCCAACTACAGCTGCTATACAGAACGGATTTTAT  
CCTTACCATAACAGTATTGCTACAAACCGAATGATCACTCAAACCTTCTATTACACCCTATATTGCATCTCCTGTA  
TCTGCCTACCAGGTGCAAAGTCCTTCGTGGATGCAACCTCAACCATATATTCTACAGCACCCCTGGTGCCGTGTTA  
ACTCCCTCAATGGAGCACACCATGTCACTACAGCCCGCATCAATGATCAGCCCTCTGGCCCAGCAGATGAGTCAT  
CTGTCACTAGGCAGCACCGGAACATACATGCCTGCAACGTCAGCTATGCAAGGAGCCTACTTGCCACAGTATGCA  
CATATGCAGACGACGCGGTTCCGTGTTGAGGAGGCAAGTGGTCAACAGCAGGTGGCTGTGAGACGTCTAATGAC  
CATTCCTCATATACCTTTCAACCTAATAAGTAACTGTGAGATGTACAGAAAGGTGTTCTTACATGAAGAAGGGTG  
TGAAGGCTGAACAATCATGGATTTTTCTGATCAATTGTGCTTTAGGAAATTATTGACAGTTTTGCACAGGTTCTT  
GAAAACGTTATTTATAATGAAATCACTAAAACTATTTTGTCTATAAGTTCTATAAGGTGCATAAAACCCTTAAA  
TTCATCTAGTAGCTGTTCCCCGAACAGGTTTATTTTAGTAAAAAAAAAAAAA

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**FIGURE 888**

MAPPSPSTTSSNNSSSSSSNSGWDQLSKTNLYIRGLPPHTTDQDLVKLCQPYGKIVSTKAILDKTTNKCKGYGFV  
DFDSPAAQKAVSALKASGVQAQMAKQQEQDPTNLYISNLPLSMDEQELNMLKPFQVISTRILRDSSGTSRGV  
GFARMESTEKCEAVIGHFNGKFIKTPPGVSAPTEPLLCKFADGGQKKRQNPKNYIPNGRPWHREGEVRLAGMTLT  
YDPTTAAIQNGFYPSYSIATNRMITQTSITPYIASPVSAQVQSPSWMQPQPYILQHPGAVLTPSMEHTMSLQP  
ASMISPLAQQMSHLSLGSTGTYPATSAMQGAYLPQYAHMQTTAVPVEEASGQQQVAVETSNDHSPYTFQPNK

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**FIGURE 889**

AGACTTGGAAACCCCAAAGTGTCCGCGACCCTGCACGGCAGCTCCCTTCCAGCTTCATGGGCAAAGTGTGGAAAC  
AGCAGATGTACCCTCAGTACGCCACCTACTATTACCCCCAGTATCTGCAAGCCAAGTTTGGAAAGGCATTTCGGGAA  
TACCAAGTGAAAAGGAAGAGTGAAGAACAGAAAAATGTTAGTGGGATGGCAAACACTGTGAACATTGCTGTTTTCT  
AGTGGGCCAGAAAAATCAGTCTCTGGTCCCAGCCCACCCCATGGCCCCCTCCAGTCCCAGCACCCACCAGCAGTAA  
TAACAACAGTAGCAGCAGTAGCAACTCAGGATGGGATCAGCTCAGCAAAACGAACCTCTATATCCGAGGACTGCC  
TCCCCACACCACCGACCAGGACCTGGTGAAGCTCTGTCAACCATATGGGAAAATAGTCTCCACAAAGGCAATTTT  
GGATAAGACAACGAACAAATGCAAAGGTTATGGTTTTGTCGACTTTGACAGCCCTGCAGCAGCTCAAAAAGCTGT  
GTCTGCCCTGAAGGCCAGTGGGGTTCAAGCTCAAATGGCAAAGCAACAGGAACAAGATCCTACCAACCTCTACAT  
TTCTAATTTGCCACTCTCCATGGATGAGCAAGAACTAGAAAAATATGCTCAAACCATTTGGACAAGTTATTTCTAC  
AAGGATACTACGTGATTCCAGTGGTACAAGTCGTGGTGTGGCTTTGCTAGGATGGAATCAACAGAAAAATGTGA  
AGCTGTTATTGGTCATTTTAATGGAAAATTTATTAAGACACCACCAGGAGTTTCTGCCCCCAGAACCTTTTATT  
GTGTAAGTTTGCTGATGGAGGACAGAAAAAGAGACAGAACCCAAACAAATACATCCCTAATGGAAGACCATGGCA  
TAGAGAAGGAGAGGTGAGACTTGCTGGAATGACACTTACTTACGACCCAACTACAGCTGCTATACAGAACGGATT  
TTATCCTTCACCATACAGTATTGCTACAAACCGAATGATCACTCAAACCTTCTATTACACCCTATATTGCATCTCC  
TGTATCTGCCTACCAGGTGGCAAAGGAAACCAGAGAAAACAAGTATCGGGGCTCTGCTATCAAGGTGCAAAGTCC  
TTCGTGGATGCAACCTCAACCATATATTCTACAGCACCTTGGTCCCGTGTTAACTCCCTCAATGGAGCACACCAT  
GTCCTACAGCCCGCATCAATGATCAGCCCTCTGGCCCAGCAGATGAGTCATCTGTCACTAGGCAGCACCGGAAC  
ATACATGCCTGCAACGTCAGCTATGCAAGGAGCTACTTGCCACAGTATGCACATATGCAGACGACAGCGGTTCC  
TGTTGAGGAGGCAAGTGGTCAACAGCAGGTGGCTGTGAGACGTCTAATGACCATTCTCCATATACCTTTCAACC  
TAATAAGTAACTGTGAGATGTACAGAAAGGTGTTCTTACATGAAGAAGGGTGTGAAGGCTGAACAATCATGGATT  
TTTCTGATCAATTGTGCTTAGGAAATTATTGACAGTTTTGACAGGTTCTTGAAAACGTTATTTATAATGAAAT  
CAACTAAAATATTTTTGTATAAGTTCTATAAGGTGCATAAAACCCTTAAATTCATCTAGTAGCTGTTCCCCCG  
AACAGGTTTATTTTAGTAAAAA

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**FIGURE 890**

MAPPSPSTTSSNNSSSSSSNSGWDQLSKTNLYIRGLPPHTTDQDLVKLCQPYGKIVSTKAILDKTTNKCKGYGFV  
DFDSPAAQKAVSALKASGVQAQMAKQQEQDPTNLYISNLPLSMDEQELENMLKPFQVISTRILRDSSGTSRGV  
GFARMESTEKCEAVIGHFNGKFIKTPPGVSAPTEPLLCKFADGGQKKRQNPKNYIPNGRPWHREGEVRLAGMTLT  
YDPTTAAIQNGFYSPYSIATNRMITQTSITPYIASPVSAIQVAKETRENKYRGSIAKVQSPSWMQPQPYILQHP  
GAVLTPSMEHTMSLQFASMSPLAQQMSHLSLGSTGYMPATSAMQGAYLPQYAHMQTTAVPVEEASGQQQVAVE  
TSNDHSPYTFQPNK

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**FIGURE 891**

GGCTAATGTAACATACTCTACCACTTGGTCTGAAGCCCAGCAGTATCTGATGGATAATCCAACCTTTTGCAGAAGA  
TGAGGAGTTACAAAATATGGACAAAGAAGATGCATTAATTTGCTTTGAAGAACACATTTCGGGCTTTAGAAAAGGA  
GGAAGAAGAAGAAAAACAGAAGAGTTTGTCTGAGAGAAAGGAGACGACAGCGAAAAAATAGGGAACTTTTCCAGAT  
ATTTTTAGATGAATTACATGAACATGGACAACATGCATTCTATGTCATCTTGGATGGAATTGTATCCAACCTATTAG  
TTCTGATATTAGATTCACTAATATGCTTGGTCAGCCTGGATCAACTGCACCTTGATCTTTTCAAGTTTTATGTTGA  
GGATCTTAAAGCACGTTATCATGACGAGAAGAAGATAATAAAAGACATTCTAAAGGATAAAGGATTTGTAGTTGA  
AGTAAACACTACTTTTGAAGATTTTGTGGCGATAATCAGTTCAACTAAAAGATCAACTACATTAGATGCTGGAAA  
TATCAAATTGGCTTTCAATATTACTAGAAAAGGCAGAAGCCCGTGAACGTGAAAGAGAAAAAGAGAGGCTCGGA  
AGATGAAACGAAAAGAATCTGCATTTAAGAGTATGTTAAAAACAAGCTGCTCCTCCGATAGAATTGGATGCTGTCT  
GGGAAGATATCCGTGAGAGATTTGTAAAAGAGCCAGCATTGAGGACATAACTCTAGAATCTGAAAGAAAACGAA  
TATTTAAAGATTTTATGTCATGTGCTTGAGCATGAATGTCAGCATCATCATTCAAAGAACAAGAAACATTCTAAGA  
AATCTAAAAAACATCATAGGAAACGTTCCCGCTCTCGATCGGGGTCAGATTGATGATGATAGCCATTCAA  
AGAAAAAAGACAGCGATCAGAGTCTCGTTCTGCTTCAGAACATTCTTCTAGTGCAGAGTCTGAGAGAAGTTATA  
AAAAGTCAAAAAAGCATAAGAAGAAAAGTAAGAAGAGGAGACATAAATCTGACTCTCCAGAATCCGATGCTGAGC  
GAGAGAAGGATAAAAAAGAAAAGATCGGGAAAGTGAAAAGACAGAACTAGACAAAGATCAGAATCAAAACACA  
AATCGCCTAAGAAAAAGACTGGAAGGATTCTGGTAATTGGGATACTTCTGGCAGCGAACTGAGTGAAGGGGAAT  
TGGAAAAGCGCAGAAGAACCCTTTTGGAGCAACTGGATGATGATCAATAAATTATACCAAATATATGTTTACAGT  
ATGATTTAAAGTCTGATTCAGACCAGGGACTCTATTTTAAAGTTCAACTGAAATAACACTGGGTTTTAATTATATC  
ACAGGAAAAAAAAGTGCATTTAAGTATTGTTATCGTGGACTTTATAAAAGCAAAGGAAATTGAAAGTAACTTTT  
GATTCTGTATCAAGAATCATATTTTCATACAGTCATAACTGTCTTTCTGTGACCCTTTACAGGGCACTGTAGGA  
TGGATTAAAGGTGGCAATTTACTGATAACTGCAGATGTCTCTACTTTGTTCTAAAACTAAGTCATGAGGTGATT  
TGATTTACTTTATAGAAGCTGGATTTTGAAGATCTAATGAAAAATTTTTTGATAATATAGTAGTACAAAAAAGC  
ACCAGCAACTGATAAAAAATTGCTTTTTTGTGCGCTACCCAACCTGGTTAAAGCCAATGTGATCTTTTATGGTGAAA  
CTCCTAAGAAACAGGTGGTTTTGCTGGAACTTGGTAGACCCTTAATTATAGTGGTGCTAATGAGCACTACTGTA  
ATATAAAGCCACCATTATTTTTATCAAACATCTGAATACATTTTACAAAGGCTATTGTGAGGGCATTATTTTGA  
GCATCTATTTGAGGTGATGTTAAAAAACTTTAACATCAAATCAAATTGTAATTAATTTAAATATATTGCCT  
TAAGGACCTACTAAAGAATGTGCCACCAGACTTTAAGTGATAGTTGCAATATCCTTGCTAAAAAAGGCTGCTG  
GTTGACTTAAACATTTTCTTTAACAGTTGTCTTTTTTTCTAAATTCAGTCTTCTCTTGCTTTTTTTTCCCTGC  
TATTGAGGAAGTATTTTGCCTTCCCTACTCACTGAGAAGTATTGACTTCGTGGTACACATTCTAAAGCATTCTG  
ATTTGAATATTTTTGTACATTTTATCAATTATTAACCTTCTCTCTAGTG

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**FIGURE 892**

MLEISNWLSILLEKAEAREREREKEEARKMKRKESAFKSMKQAAPPIELDAVWEDIRERFVKEPAFEDITLESE  
RKRIKDFMHVLEHECQHHSKNKKHSKSKKHHRKRSRSGSDSDDDSHSKKRQRSESRASEHSSSAESE  
RSYKSKKHKKSKKRRHKSDSPESDAEREKDKKEKDRESEKDRTRQRSESKHKSPKKKTGKDSGNWDTSGSELS  
EGELEKRRRTLLEQLDDQ

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**FIGURE 893**

CCAGCACGCGCCGCTCTGCCCCAGGGAAGTCCCTGTCTTACCTTCAGCAGGAGCCGGTTCCCTGTGTGTGTGT  
CCGCTCGCCCTCTGCTCCGTCTGCGGCTGCCCACCTGCCCTCTACGGTCCACCATGGCCCTGCTGCACTCCGGC  
CGCGTCTCTCCCGGGATCGCCGCCGCTTCCACCCGGGCTCGCCGCCGCGGCTCTGCCAGAGCCAGCTCCTGG  
TGGACCCATGTGGAAATGGGACCTCCAGATCCATTCTGGGAGTCACTGAAGCCTTTAAGAGGGACACCAATAGC  
AAAAAGATGAATCTGGGAGTTGGTGCTACCGGGATGATAACGGAAAGCCTTACGTGCTGCCTAGCGTCCGCAAG  
GCAGAGGCCAGATTGCCGCAAAAAATTTGGACAAGGAATACCTGCCATTGGGGGACTGGCTGAATTTTGCAAG  
GCATCTGCAGAACTAGCCCTGGGTGAGAACAGCGAAGTCTTGAAGAGTGGCCGGTTTGTCACTGTGCAGACCATT  
TCTGGAAGTGGAGCCTTAAGGATCGGAGCCAGTTTTCTGCAAGATTTTTTAAGTTTCAGCCGAGATGTCTTTCTG  
CCCAAACCAACCTGGGGAAACCACACACCCATCTTCAGGGATGCTGGCATGCAGCTACAAGTTATCGGTATTAT  
GACCCCAAGACTTGCGGTTTTGACTTCACAGGCGCTGTGGAGGATATTTCAAAAATACCAGAGCAGAGTGTTCTT  
CTTCTGCATGCCTGCGCCACAATCCCACGGGAGTGGACCCGCGTCCGGAACAGTGAAGGAAATAGCAACAGTG  
GTGAAGAAAAGGAATCTCTTTGCGTTCTTTGACATGGCTACCAAGGCTTTGCCAGTGGTGATGGTGATAAGGAT  
GCCTGGGCTGTGCGCCACTTCATCGAACAGGGCATTAAATGTTTGTCTCTGCCAATCATATGCCAAGAACATGGGC  
TTATATGGTGAGCGTGTAGGAGCCTTCACTATGGTCTGCAAAGATGCGGATGAAGCCAAAAGGGTAGAGTCACAG  
TTGAAGATCTTGATCCGTCCCATGTATTCACACCTCCCTCAATGGGGCCCGGATTGCTGCTGCCATTCTGAAC  
ACCCAGATTTGCGAAAACAATGGCTGCAAGAAGTGAAGGCGATGGCTGACCGCATCATTGGCATGCGGACTCAA  
CTGGTCTCCAACCTCAAGAAGGAGGGTTCCACCCACAATTGGCAACACATCACCGACCAAATTGGCATGTTCTGT  
TTCACAGGGCTAAAGCCTGAACAGGTGGAGCGGCTGATCAAGGAGTTCTCCATCTACATGACAAAAGATGGCCGC  
ATCTCTGTGGCAGGGGTACCTCCAGCAACGTGGGCTACCTTGCCCATGCCATTACCAGGTCACCAAGTAATGT  
CCCTGGTGCGAGGAAACAGAGACAACCTTTCTGTCTTCAGCCTCTGCTATTGAGAGCTTCACACAGACAATGAGA  
GAGGGTGGATGGTGGTGAGTGGATCATTCTTTTCAGCCACAGTGTGTAACACTCAGCATTGGAATGTTTCTCAGA  
AAAGAACATGTAGTGACACAGGGCAGAGGCATCCATGGCTGGCGTCTGGAATATTAACCAAACCTCTCCCGGTC  
CTTTTTCTCCAACCTTTCTCAAAGAGTTTACATGTGCAAGAAAGTCATCGCACCAAAAAACCTGTCAATTATGC  
CATTGCAATATTTTCAAGCTTTTAACTGAAGTGTGAGTTCCCTCGTGAGAAACAGCACACGTTAGAGGCTTTGAG  
AGAAGGCCTAGTTCTGTATGATAGTACGCGCTCGTGTCTGTCTCTCCATCTTGGAACAACCTTATCAACAGGCC  
GCACTGCAGAAATGATGTTTTATGAAAACCAATGAGGCTGCTGCCACTCCAGCAAGGGAAATAATGCAGTTTCCT  
GTCTTATTTAAGAAAAAGAGAAGGCTCTCTTTCTCCCTTGTCATTGCCGTTCTTTTCTTACACGCAAAGATTT  
TTAACTATTGCAGATTTTCATCCATTCTACTGCTTGATTGACCATCAACTCCATCCTATCGAGATTTATTTAA  
GAATGAAGAACATAATTTCTGCTGATGCCGTACCTCACCTTTTCAGCAAAGAATAGTGGAGAGTAGGAAACT  
GTACTTTATCTCGGCATCCTCTTGAATGATAGTGCAAGTTTCTCCAGTTGGGATGTTGTCTCTGCCCGGTTGGAC  
CTCCTCCCTTTGTTGAATGTGGTGTGCAGCCTCTCATCTCACACTGTGAGTCCAGCGGCGCAGGGTGGTACCAGG  
AAAGAGGATATTCTAGGCTTTGCGTGCTGCTAGCTGGGTTTCAGGCTTCACCCACTGGAAAGAACCACCATCTGCT  
CTAACCATGTAGACTTATTGCGGCCTGGTTTCTGTGTTACAATAAAATTACTGTAGACC

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**FIGURE 894**

GAGTGACTCCACCGCCCGGAGCAGCGGTGCAGGACGCGCGTCTCCGCCGCCCGGGTGACTTCTGCCTGCGCTCC  
TTCTCTGAACGCTCACTTCCGAGGAGACGCCGACGATGAAGACACCGTGGAAGGTTCTTCTGGGACTGCTGGGTG  
CTGCTGCGCTTGTCAACATCATCACCGTGCCCGTGGTTCTGCTGAACAAAGGCACAGATGATGCTACAGCTGACA  
GTCGCAAACTTACACTCTAACTGATTACTTAAAAATACTTATAGACTGAAGTTATACTCCTTAAGATGGATTT  
CAGATCATGAATATCTCTACAAACAAGAAAATAATATCTTGGTATTCAATGCTGAATATGGAAACAGCTCAGTTT  
TCTTGGAGAACAGTACATTTGATGAGTTTGGACATTCTATCAATGATTATTCAATATCTCCTGATGGGCAGTTTA  
TTCTCTTAGAATACAACCTACGTGAAGCAATGGAGGCATTCTACACAGCTTCATATGACATTTATGATTTAAATA  
AAAGGCAGCTGATTACAGAAGAGAGGATTCCAAACAACACAGTGGGTCACATGGTCACCAGTGGGTCATAAAT  
TGGCATATGTTTGGAACAATGACATTTATGTTAAATTTGAACCAAAATTTACCAAGTTACAGAATCACATGGACGG  
GGAAAGAAGATATAATATATAATGGAATAACTGACTGGGTTTATGAAGAGGAAGTCTTCAGTGCCCTACTCTGCTC  
TGTGGTGGTCTCCAAACGGCACATTTTTTAGCATATGCCCAATTTAACGACACAGAAGTCCCACTTATTGAATACT  
CCTTCTACTCTGATGAGTCACTGCAGTACCCAAAGACTGTACGGGTTCCATATCCAAAGGCAGGAGCTGTGAATC  
CAACTGTAAAGTTCTTTGTTGTAATACAGACTCTCTCAGCTCAGTCACCAATGCAACTTCCATACAAATCACTG  
CTCCTGCTTCTATGTTGATAGGGGATCACTACTTGTGTGATGTGACATGGGCAACACAAGAAAGAAATTTCTTTGC  
AGTGGCTCAGGAGGATTGAGAATATTCGGTCATGGATATTTGTGACTATGATGAATCCAGTGGGAAGATGGAAT  
GCTTAGTGGCAGGCAACACATTGAAATGAGTACTACTGGCTGGGTTGGAAGATTTAGGCCTTCAGAACCTCATT  
TTACCCCTTGATGGTAATAGCTTCTACAAGATCATCAGCAATGAAGAAGGTTACAGACACATTTGCTATTTCCAAA  
TAGATAAAAAAGACTGCACATTTATTACAAAAGGCACCTGGGAAGTCATCGGGATAGAAGCTCTAACCAAGTGATT  
ATCTATACTACATTAGTAATGAATATAAAGGAATGCCAGGAGGAAGGAATCTTTATAAAATCCAACTTAGTGACT  
ATACAAAAGTGACATGCCCTCAGTTGTGAGCTGAATCCGGAAGGTGTGAGTACTATTCTGTGTCATTTCAGTAAAG  
AGGCGAAGTATTATCAGCTGAGATGTTCCGGTCTGCTGCCCCCTCTATACTCTACACAGCAGCGTGAATGATA  
AAGGGCTGAGAGTCTGGAAGACAATTCAGCTTTGGATAAAATGCTGCAGAAATGTCAGATGCCCTCCAAAAAAC  
TGGACTTCATTATTTTGAATGAAACAAAATTTTGGTATCAGATGATCTTGCCTCCTCATTITGATAAATCCAAGA  
AATATCCTCTACTATTAGATGTGTATGCAGGCCCATGTAGTCAAAAAGCAGACACTGTCTTCAGACTGAACTGGG  
CCACTTACCTTGCAAGCACAGAAAACATTATAGTAGCTAGCTTTGATGGCAGAGGAAGTGGTTACCAAGGAGATA  
AGATCATGCATGCAATCAACAGAAGACTGGGAACATTTGAAGTTGAAGATCAAATTGAAGCAGCCAGACAATTTT  
CAAAAATGGGATTTGTGGACAACAAACGAATTTGCAATTTGGGGCTGGTCATATGGAGGGTACGTAACTCAATGG  
TCCTGGGATCGGGAAGTGGCGTGTCAAGTGTGGAATAGCCGTGGCGCCTGTATCCCGGTGGGAGTACTATGACT  
CAGTGTACACAGAACGTTACATGGGTCTCCCAACTCCAGAAGACAACCTTGACCATTACAGAAATTCACAGTCA  
TGAGCAGAGCTGAAAATTTTAAACAAGTTGAGTACCTCCTTATTCATGGAACAGCAGATGATAACGTTCACTTTC  
AGCAGTCAGCTCAGATCTCCAAAGCCCTGGTCGATGTTGGAGTGGATTTCAGGCAATGTGGTATACTGATGAAG  
ACCATGGAATAGCTAGCAGCACAGCACACCAACATATATATACCCACATGAGCCACTTCATAAAACAATGTTTCT  
CTTTACCTTAGCACCTCAAAATACCATGCCATTTAAAGCTTATTTAAACTCATTITTTGTTTTTCATTATCTCAAAA  
CTGCACTGTCAAGATGATGATGATCTTTAAATACACACTCAAATCAAGAACTTAAGGTTACCTTTGTTCCCAA  
ATTTACATACCTATCATCTTAAGTAGGGACTTCTGTCTTCACAACAGATTATTACCTTACAGAAGTTTGAATTATC  
CGGTGCGGTTTTATTGTTTAAATCATTITCTGCATCAGCTGCTGAAACAACAAATAGGAATTTGTTTTATGGAGG  
CTTTGCATAGATTCCCTGAGCAGGATTTTAACTTTTTCTAACTGGACTGGTTCAAATGTTGTTCTCTTTTAA  
AGGGATGGCAAGATGTGGCAGTGATGTCACTAGGGCAGGGACAGGATAAGAGGGATTAGGGAGAGAAGATAGCA  
GGGCATGGCTGGGAACCAAGTCCAAGCATACCAACAGCAGGCTACTGTGAGCTCCCTCGGAGAAGAGCTG  
TTCACAGCCAGACTGGCACAGTTTCTGAGAAAGACTATTCAAACAGTCTCAGGAAATCAAATATGCAAAGCACT  
GACTTCTAAGTAAAACACAGCAGTTGAAAAGACTCCAAAGAAATGTAAGGGAACCTGCCAGCAACGCAGGCCCC  
CAGGTGCCAGTTATGGCTATAGGTGCTACAAAACACAGCAAGGGTGATGGGAAAGCATTGTAAATGTGCTTTTA  
AAAAAAATACTGATGTTCCTAGTGAAAGAGGCAGCTTGAAACTGAGATGTGAACACATCAGCTTGCCCTGTTAA  
AAGATGAAAATATTTGTATCAGAAATCTTAACCTGAAGGAGTCTTGATCAATTTTTCTTATTTTCTTTG  
AGTGTCTTAATTAAGAATATTTTAACTTCTTGAGTCAATTTTAAAAATGGAACATAAAATACAATGTTATG  
TATTATTATCCCATCTACATACTATGGAATTTCTCCAGTCATTTAATAAATGTGCCTTCATTTTTTC



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**FIGURE 895**

MKTPWKVLLGLLGAAALVTIITVPVLLNKGTDATADSRKTYTLTDYLNKNTYRLKLYSLRWISDHEYLYKQENN  
ILVFNAEYGNSSVFLENSTFDEFGHSINDYSISPDGQFILLEYNVVKQWRHSYTASYDIYDLNKRQLITEERIPN  
NTQWVTWSPVGHKLAYVWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWVYEEEVFSAYSALWWSPNGTFLAY  
AQFNDTEVPLIEYSFYSDSLQYPKTVRVPYPKAGAVNPTVKFFVVNTDSLSSVTNATSIQITAPASMLIGDHYL  
CDVTWATQERISLQWLRRIQNYSVMDICDYDESSGRWNCVARQHIEMSTTGWVGFRFPSEPHFTLDGNSFYKII  
SNEEGYRHICYFQIDKKDCTFITKGTWEVIGIEALTSYLYYISNEYKGMPPGGRNLYKIQLSDYTKVTCLSCELN  
PERCQYYSVSFSKEAKYYQLRCSGPGPLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSKKLDFIILNETKFW  
YQMILPPHFDKSKKYPLLLDVYAGPCSQKADTVFRLNWATYLASTENIIVASFDRGSGYQGDKIMHAINRRLGT  
FEVEDQIEAARQFSKMGFVDNKRIAIWGWSYGGYVTSMLVSGSGVFKCGIAVAPVSRWEYYDSVYTERYMGLPT  
PEDNLDHYRNSTVMSRAENFKQVEYLLIHGTADDNVHFQQSAQISKALVDVGVDFAQMWYTDEDHGIASSSTAHH  
IYTHMSHFIKQCFSLP

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**FIGURE 896**

GT TTGAAATCGGAAAGTTGGCGGGGCTGCGGGAGCTGAGCCTAGAGTCCGGCTGTTGGCTAGAGTGGGCGCGGAT  
CTGGTGTGGGGAAGGCGGGGACTCAGGCCTGCCTGCÁAGCATTGTCTACATAATGGTAGAGGACGAACTGG  
CACTTTTCGATAAAAGCATAAATGAATTTTGAATAAATTCAAAGTACGGACACCTCCTGTCAGATGGCGGGAC  
TAAGAGATACCTACAAGGATTCCATCAAAGCATTTCAGAAAAGCTGTCTGTGAAATTAAGGAAGAAGAACC  
TGGTTGAGATGTTTCTGGAATATCAAATCAGATCAGCAGGCAAAATAAGCTCATTCAAGAAAAAAGGATAACT  
TGTTAAATTTGATTGCTGAAGTAAAGGCAAAAGCAGGAATTGGAAGTACTGACTGCAATATCCAGGATCTTA  
AGGAAGAATATTCTAGGAAGAAGGAACTATTTCTACTGCTAATAAGCGAATGCAGAGAGGTTGAAAAGGCTGC  
AGAAATCTGCAGACTTGTATAAGATCGACTTGGACTAGAAATTCGAAAAATTTATGGTGAGAAATTGCAGTTTA  
TTTTCACTAATATTGACCCTAAGAATCCTGAGAGCCCATTTATGTTTTCTTACATCTCAATGAAGCAAGGGACT  
ATGAAGTGTGAGATAGTCCCCCTCATCTTGAGGGCCTAGCAGAATTTCAAGAGAATGTAAGGAAGACCAACAATT  
TTTCAGCTTTTCTTGCCAATGTTTCGAAAGCTTTTACTGCCACGGTTTATAATTAAACATACAAATAGTGATATA  
AAAACGGTTTATTTTCTTCTCTATTACATATCTCTTTTTTTTCTTGTTTTATTATTACTATACITTAAGTTTT  
AGGGTACATGTGCACAATGTGCAGGTTTGTACATATGTATACATGTGCCATATTGGTGTGCTGCACCCATTAAC  
TCGTCAATTCATTAGGTATATCTCCTAATGCTATCCCTCCCCCTCCCCCAACCCACAACAGTCCCCGTTGTGTG  
ATGTTCCCTTCCCTGTGTCCATGTGTTCTCATTGTTCAATTCACCTAGGAGTGAGAATATGTGGTGTGTTGGTT  
TTTTGTCCTTTCGATAGTTTGCTGAGAATGATGGTTTCCAGCTTCATCCATGTTCTTACAAAGGACATGAAC TCA  
TCCTTTTTTATGGCTGCATAGTATTCCATGGTGTATATGTGCCACATTTTCTTAATCCAGTCTATCATTGTTGGA  
CATTTGGGTTGGTTCCAAGTCTTTGCTATTGTGAATAGTGCCGAAATAAACATACGTGTGCATGTGTCTCCAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 897**

MVEDELALFDKSINEFWNKFKSTDTSCQMAGLRDITYKDSIKAFKLSVKLKEEERMVEMFLEYQNQISRQNKLI  
QEKKNLLKLI AEVKGKKQELEVLTANIQDLKEEYSRKETISTANKANAERLKRLOKSADLYKDRGLGLEIRKIY  
GEKLQFIFTNIDPKNPESPFMFSLHLNEARDYEVSDSAPHLEGLAEFQENVRKTNNFSAFLANVRKAFTATVYN

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**FIGURE 898**

AAGCACAGGCCACCACTCTGCCCTGGTCCACACAAGCTCCGGTAGCCCATGAGGCCCTGGCCTCTCCTCCTGCTC  
TTTAGCCTTTTGCTCAGCTGGCCTCGTCCTGGGCTCCGAACATGAGACCCGTCTGGTGGCAAAGCTATTTAAAGAC  
TACAGCAGCGTGGTGCGGCCAGTGGGAAGACCACCGCCAGGTCGTGGAGGTCACCGTGGGCCTGCAGCTGATACAG  
CTCATCAATGTGGATGAAGTAAATCAGATCGTGACAACCAATGTGCGTCTGAAACAGCAATGGGTGGATTACAAC  
CTAAATGGAATCCAGATGACTATGGCGGTGTGAAAAAATTACATTTCCTTCAGAAAAGATCTGGCGCCCAGAC  
CTTGTCTCTATAACAATGCAGATGGTGACTTTGCTATTGTCAAGTTCACCAAAGTGCTCCTGCAGTACACTGGC  
CACATCACGTGGACACCTCCAGCCATCTTTAAAGCTACTGTGAGATCATCGTCACCCACTTTCCCTTTGATGAA  
CAGAACTGCAGCATGAAGCTGGGCACCTGGACCTACGACGGCTCTGTCTGGCCATCAACCCGGAAAGCGACCAG  
CCAGACCTGAGCAACTTCATGGAGAGCGGGGAGTGGGTGATCAAGGAGTCCCGGGGCTGGAAGCACTCCGTGACC  
TATTCCTGCTGCCCCGACACCCCTACCTGGACATCACCTACCACTTCGTTCATGCAGCGCCTGCCCTCTACTTC  
ATCGTCAACGTCATCATCCCCTGCCTGCTCTTCTCCTTCTTAACTGGCCTGGTATTCTACCTGCCACAGACTCA  
GGGGAGAAGATGACTCTGAGCATCTCTGTCTTACTGTCTTTGACTGTGTTCCTTCTGGTCAICGTGGAGCTGATC  
CCCTCCACGTCCAGTGCTGTGCCCTTGATTGGAATAACATGCTGTTCACCATGGTGTTCGTTCATTGCCTCCATC  
ATCATCACTGTTCATCGTCATCAACACACACCACCGCTCACCCAGCACCCATGTTCATGCCCAACTGGGTGCGGAAG  
GTTTTTATCGACACTATCCCAAATATCATGTTTTTCTCCACAATGAAAAGACCATCCAGAGAAAAGCAAGACAAA  
AAGATTTTACAGAAGACATTGATATCTCTGACATTTCTGGAAAGCCAGGGCCTCCACCCATGGGCTTCCACTCT  
CCCCTGATCAAACACCCCGAGGTGAAAAGTGCCATCGAGGGCATCAAGTACATCGCAGAGACCATGAAGTCAGAC  
CAGGAGTCTAACAATGCGGCGGCAGAGTGGAAAGTACGTTGCAATGGTGATGGACCACATACTCCTCGGAGTCTTC  
ATGCTTGTGTTGCAICATCGGAACCTAGCCGTGTTTGCAGGTGCGACTCATTGAATTAAATCAGCAAGGATGAGCA  
GAAATGAGCTGAGCTTAGCTCTGCCCTGGAACCTACCAGAGCAGAGAAGGGCAGGAGAGGAAGATTGTCTACT  
TGCTCCACTCGCACTTATCAAACGTGTTATATCCATACTTATTATTGATGATAAGATTTACCTTTATGTAAGTT  
TATGGCCTTGAAGTGTTTTTCATATTGCTTCTCCCTTTAGTTCTGCTGTCTCCCTGAAGAGTGAACCTCTTTAGT  
AAATGAACTAATCACT

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**FIGURE 899**

MEPWPLLLLFSLCSAGLVLGSEHETRLVAKLFKDYSSVVRPVEDHRQVVEVTVGLQLIQLINVDEVNQIVTTNVR  
LKQQWVDYNLKNPDDYGGVKKIHIPSEKIWRPDLVLYNNADGDFAIVKFTKVLLQYTGHITWTPPAIFKSYCEI  
IVTHFPFDEQNCSMKLGTWYDGSVVAINPESDQPDLSNFMESGEWVIKESRGWKHSVTYSCCPDTPYLDITYHF  
VMQRLPLYFIVNVIIPCLLFSFLTGLVFYLPDTSGEKMTLSISVLLSLTVFLLVIVELIPSTSSAVPLIGKYMFL  
TMVFVIASIIITVIVINTHHRSPSTHVMPNWRKVFIDTIPNIMFFSTMKRPSREKQDKKIFTEDIDISDISGKP  
GPPPMGFHSPLIKHPEVKS AIEGIKYIAETMKSDQESNNAAEWKYVAMVMDHILLGVFMLVCIIGTLAVFAGRL  
IELNQOG

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**FIGURE 900**

GTTTCGCAGCCGCCGCCGCCGCCGCTCGCTCTCCAACGCCAGCGCCGCCCTCTCGCTCGCCGAGCTCCAGCCGAAG  
GAGAAGGGGGGTAAGTAAGGAGGTCTCTGTACCATGGCTCGTACAAAGCAGACTGCCCCGAAATCGACCGGTGGT  
AAAGCAGCCAGGAAGCAACTGGCTACAAAAGCCGCTCGCAAGAGTGCGCCCTCTACTGGAGGGGTGAAGAAACCT  
CATCGTTACAGGCCTGGTACTGTGGCGCTCCGTGAAATTAGACGTTATCAGAAGTCCACTGAACTTCTGATTTCGC  
AAACTTCCCTTCCAGCGTCTGGTGCGAGAAATTGCTCAGGACTTTAAAACAGATCTGCGCTTCCAGAGCGCAGCT  
ATCGGTGCTTTGCAGGAGGCAAGTGAGGCCTATCTGGTTGGCCTTTTGAAGACACCAACCTGTGTGCTATCCAT  
GCCAAACGTGTAACAATTATGCCAAAAGACATCCAGCTAGCACGCCGCATACGTGGAGAACGTGCTTAAGAATCC  
ACTATGATGGGAAACATTTCAATCTCAAAAAAAAAAAAAAAAAATTCTCTTCTTCTGTTATTGGTAGTTCTGAAC  
GTTAGATATTTTTTTTCCATGGGGTCAAAAGGTACCTAAGTATATGATTGCGAGTGGAATAATAGGGGACAGAAA  
TCAGGTATTGGCAGTTTTTCCATTTTCATTTGTGTGTGAATTTTAAATATAAATGCCGAGACGTAAAGCATTAAAT  
GCAAGTTAAATGTTTCAGTGAACAAGTTTCAGCGGTTCACTTTATAATAATTATAAATAAACCTGTAAATTT  
TTCTGGACAATGCCAGCATTTGGATTTTTTTAAAACAAGTAAATTTCTTATTGATGGCAACTAAATGGTGTGTGT  
AGCATTTTTATCATACAGTAGATTCCATCCATTCATACTTTTCTAACTGAGTTGTCCTACATGCAAGTACAT  
GTTTTTAATGTTGTCTGTCTTCTGTGCTGTTCCGTGAAGTTTGCTATTAAAATACATTAAACTAT

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**FIGURE 901**

CGCCGAGCTCCAGCCGAAGGAGAAGGGGGTAAGTAAGGAGGTCTCTGTACCATGGCTCGTACAAAGCAGACTGC  
CCGCAAATCGACCGGTGGTAAAGCACCCAGGAAGCAACTGGCTACAAAAGCCGCTCGCAAGAGTGCGCCCTCTAC  
TGGAGGGGTGAAGAAACCTCATCGTTACAGGCCTGGTACTGTGGCGCTCCGTGAAATTAGACGTTATCAGAAGTC  
CACTGAACTTCTGATTCGCAAACCTCCCTTCCAGCGTCTGGTGCGAGAAATGCTCAGGACTTTAAAACAGATCT  
GCGCTTCCAGAGCGCAGCTATCGGTGCTTTGCAGGAGGCAAGTGAGGCCTATCTGGTTGGCCTTTTGAAGACAC  
CAACCTGTGTGCTATCCATGCCAAACGTGTAACAATTATGCCAAAAGACATCCAGCTAGCACGCCGCATACGTGG  
AGAACGTGCTTAAGAATCCACTATGATGGGAAACATTTCACTCTCTCCATGGGGTCAAAGGTACCTAAGTATAT  
GATTGCGAGTGAAA

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**FIGURE 902**

MARTKQTARKSTGGKAPRKQLATKAARKSAPSTGGVKKPHRYRPGTVALREIRRYQKSTELLIRKLFPQRLVREI  
AQDFKTDLRFQSAAIGALQEASEAYLVGLFEDTNLCAIHAKRVTIMPKDIQLARRIRGERA



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**FIGURE 903**

CAGCCGTTGAGGGGACGGGCCTGCGTTCTCTCCTCCTTCCCTCCCGCCTCCAGCTGCCGGCAGGACCTTTCTCTC  
GCTGCCGCTGGGACCCCGTGTCTATCGCCCAGGCCGAGCACGATGCCCCCTAAAAAGGGAGGTGATGGAATTAAAC  
CACCCCAATCATTGGAAGATTTGGAACCTCACTGAAAATTGGTATTGTTGGATTGCCAAATGTTGGGAAATCTA  
CTTTCTTCAATGIGTTAAACCAATAGTCAGGCTTCAGCAGAAAACTTCCCGTTCTGCACTATTGATCCTAATGAGA  
GCAGAGTACCTGTGCCAGATGAAAGGTTTGACTTTCTTTGTCAATACCACAAACCAGCAAGCAAAATTCCTGCCT  
TTCTAAATGTGGTGGATATTGCTGGCCTTGTGAAAGGAGCTCACAATGGGCAGGGCCTGGGGAATGCTTTTTTAT  
CTCATATTAGTGCCTGTGATGGCATCTTTCATCTAACACGTGCTTTTGAAGATGATGATATCACGCACGTTGAAG  
GAAGTGTAGATCCTATTTCGAGATATAGAAATAATACATGAAGAGCTTCAGCTTAAAGATGAGGAAATGATTGGGC  
CCATTATAGATAAACTAGAAAAGGTGGCTGTGAGAGGAGGAGATAAAAACTAAAACTGAATATGATATAATGT  
GCAAAGTAAAATCCTGGGTATAGATCAAAAGAAACCTGTTTCGCTTCTATCATGATTGGAATGACAAAGAGATTG  
AAGTGTGGAATAAACACTTATTTTTGACTTCAAAACCAATGGTCTACTTGGTTAATCTTTCTGAAAAAGACTACA  
TTAGAAAGAAAAACAAATGGTTGATAAAAAATTAAAGAGTGGGTGGACAAGTATGACCCAGGTGCTTTGGTCATTC  
CTTTTAGTGGGGCCTTGGAACCTCAAGTTGCAAGAATTGAGTGTGAGGAGAGACAGAAATATCTGGAAGCGAACA  
TGACACAAAGTGCTTTGCCAAAGATCATTAAAGGCTGGGTTTGCAGCACTCCAACTAGAATACTTTTTCACTGCAG  
GCCCAGATGAAGTGCGTGCATGGACCATCAGGAAAGGGACTAAGGCTCCTCAGGCTGCAGGAAAGATTACACAG  
ATTTTGAAAAGGGATTCAATTATGGCTGAAGTAATGAAATACGAAGATTTTAAAGAGGAAGGTTCTGAAAATGCAG  
TCAAGGCTGCTGGAAAGTACAGACAACAAGGCAGAAATTATATTGTTGAAGATGGAGATATTATCTTCTTCAAAT  
TTAACACACCTCAACAACCGAAGAAGAAATAAATTTAGTTATTGCTCAGATAAACATACAACCTCCAAAAGGCA  
TCTGATTTTTTAAAAAATTAAAAATTTCTGAAAACCAATGCGACAAATAAAGTTGGGGAGATGGGAATCTTTGACAA  
ACAAATTATTTTTATTTGTTTTTAAATTTAAATACTGTGTACCCCCCCCCCCCCATGAAATGCAGGTTCACTAAA  
TGTGAACAGCTTTGCTTTTCACGTGATTAAAGACCCTACTCCAAATTGTAGAAGCTTTTCAGGAACCATATTACTC  
TCATGATACTTCATTAATCTCCATCAIGTATGCCAAGCCTGACACATTTGACAGTGAGGACAATGTGGCTTGCTC  
CTTTTGAATCTACAGATAATGCATGTTTTACAGTACTCCAGATGTCTACACTCAATAAAACATTTGACAAAACC  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 904**

MPPKKGGDGIKPPPIIGRFGTSLKIGIVGLPNVGKSTFFNVLTNSQASAENFPFCTIDPNESRVVPDERFDFLC  
QYHKPASKIPAFNLNVVDIAGLVKGAHNGQGLGNAFLSHISACDGIFHLTRAFEDDDITHVEGSVDPIRDIEIHE  
ELQLKDEEMIGPIIDKLEKVAVRGGDKKLKPEYDIMCKVKSVIDQKKPVRFYHDWNDKEIEVLNKHFLTSPKM  
VYLVNLSEKDYIRKKNKWLIIKIKEWVDKYDPGALVIPFSGALELKLQELSAEERQKYLEANMTQSALPKIIKAGF  
AALQLEYFFTAGPDEVRAWTIRKGTAPQAAGKIHTDFEKGFI MAEVMKYEDFKEEGSENAVKAAGKYRQQGRNY  
IVEDGDIIFFKFNTPOQPKKK

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FIGURE 905

CTGCCAGCCGCGCTGCTGCTGCTCCTCCTGCTGTGGGACCGCTGACCGCGCGGCTGCTCCGCTCTCCCCGCTCCA  
AGCGCCGATCTGGGCACCCGCCACCAGCATGGACGCTCGCCGCGTGCCGCAGAAAGATCTCAGAGTAAAGAAGAA  
CTTAAAGAAATTCAGATATGTGAAGTTGATTTCCATGGAGACCTCGTCATCCTCTGATGACAGTTGTGACAGCTT  
TGCTTCTGATAATTTTGCAAACACGAAACCTAAATTCAGGTGAGATATCAGTGAAGAACTGGCAAGTGTTTTTTA  
TGAGGACTCTGATAATGAATCTTTCTGCGGCTTTTCAGAAAGTGAGGTGCAAGATGTATTAGACCATTGTGGATT  
TTTACAGAAACCAAGGCCAGATGTCTACTAACGAACCTGGCCGGTATTTTTCATGCCGACTCTGACGATGAATCATT  
TTGCGGTTTTCTCAGAGAGTGAGATACAAGATGGAATGAGGCTGCAGTCAGTTCGGGAAGGCTGTAGGACCCGCAG  
CCAGTGACGGCACTCTGGACCTCTCAGGGTGGCGATGAAGTTTCCAGCGCGGAGTACCAGGGGAGCAACCAACAA  
AAAAGCAGAGTCCCGCCAGCCCTCAGAGAATTCTGTGACTGATTCCAACCTCCGATTGAGAAGATGAAAGTGGAAT  
GAATTTTTTGGAGAAAAGGGCTTTAAATATAAAGCAAACAAAGCAATGCTTGCAAAACTCATGTCTGAATTAGA  
AAGCTTCCCTGGCTCGTTCCGTGGAAGACATCCCTCCAGGCTCCGACTCACAATCAAGGAGACCGCGAAGGCG  
TACATTTCCCGGTGTGTGCTTCCAGGAGAAACCTGAACGGAGAGCTCGTCTCTTACCAGGTCAAGGTCCCGGAT  
CCTCGGGTCCCTTGACGCTCTACCCATGGAGGAGGAGGAGGAAGAGGATAAGTACATGTTGGTGAGAAAGAGGAA  
GACCGTGGATGGCTACATGAATGAAGATGACCTGCCCAGAAGCCGTCGCTCCAGATCATCCGTGACCTTCCGCA  
TATAATTCGCCCAGTGGAAGAAATTACAGAGGAGGAGTTGGAGAACGCTCGCAGCAATTCTCGAGAGAAGATATA  
TAACCGTTCAGTGGGCTCTACTTGTCTCATCAATGCCGTCAGAAGACTATTGATACCAAAACAACTGCAGAAACCC  
AGACTGCTGGGGCGTTTCGAGGCCAGTTCTGTGGCCCTGCCTTCGAAACCGTTATGGTGAAGAGGTCAGGGATGC  
TCTGCTGGATCCGAACCTGGCATTGCCCGCCTGTGCGAGGAATCTGCAACTGCAGTTTCTGCCGGCAGCGAGATGG  
ACGGTGTGCGACTGGGGTCTTGTGTATTTAGCCAAATATCATGGCTTTGGGAATGTGCATGCCCTACTTTGAAAAG  
CCTGAAACAGGAATTTGAAATGCAAGCATAATATCTGGAATAATTTGCTGCCTGCCTTCTACTTCTCAAATCTTTC  
TTGTAAAAGTTTCCAATTTTTTCACTGAAACCTGAGTTAAAAATCTTGATGATCAGCCTGTTTACATAAGAACTC  
CAATCAAGTTAATCTTAGCAGACATGTGTTTCTGGAGCATCACAGAAGGTATATTGCTAGTTACACTTTGCCCTC  
CTGCAGTTTCTTCTGCTCCCAACCCCATCTCATAGCATCCCCCTCTATTTCCAATGCTCCTCTCCAACCGCT  
TAGTTTCTGAATTTCTTTTAAATTACAGTTTTATGAAAGCATATTTTATTTACTTGGTGTTGAAATAGCCCTCAT  
AAAACCTAAGCACTTGGAAACACAATAATAGTATTAACCTAAGTAGATCTATTGAATTTGAGAGAAGACCTTCTA  
ACTTGTTTACACAAAAACGAGTATGATTTAGCATTCTACTAGTTGAAATTTTTAATAGAATCAAGGCACAAAAG  
TCTTAAAACCATGTGGAAAAATTAGGTAATTATTGCAGATTGATGTCCTCAATCCCATGTATTGCGCTTATGTT  
ACAAGTTGTTGTACAGTTGAGACTTAATTTCTCCTAATTTCTTCTGCCCGAAGGGTAAGTGGTGCGTCCAGCTT  
ACACAATCATAATTCAAAGGTTGGTGGGCAATGTAATACCTAATTAATAAATAATGATGGAAGAGCTATCTGGAGAT  
TATGAGTAAGCTGATTTGAATTTTTCAGTATAAACTTTAGTATAATTGTAGTTTGCAAAGTTTATTTAGTTTAC  
ATGTAAGGTATTGCAAATAAATCTTGGACAATTTTGTATGGAACCTTGATATTAAAACTAGTCTGTGGTTCTT  
TGCAGTTTCTTGTAATTTATAAACCAGGCACAAGGTTCAAGTTTAGATTTTAAGCACTTTTATAACAATGATAA  
GTGCCTTTTTGGAGATGTAACTTTTAGCAGTTTGTAACTGACATCTCTGCCAGTCTAGTTTCTGGGCAGGTTT  
CCGTGTGTCAGTATTTCCCTCTCTTTGCATTAAATCAAGGTATTTGGTAGAGGTGGAATCTAAGTGTGTTGTATGT  
CCAATTTACTTGATATGTAACCATTTGCTGTGCTATTCAATGTTTGATGCATAATTGGACCTTGAATCGATAAG  
TGTAATACAGCTTTTGATCTGTAATGCTTTTATACAAAAGTTTATTTTAATAATAAAATGTTTGTCT

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**FIGURE 906**

MDARRVPQKDLRVKKNLKKFRYVKLISMETSSSSDDSCDSFASDNFANTKPKFRSDISEELASVFYEDSDNESFC  
GFSESEVQDVLHDHCGFLQKPRPDVTNELAGIFHADSDDESFCGFSESEIQDGMRLQSVREGCRTRSQCRHSGPLR  
VAMKFFPARSTRGATNKKAESRQPSSENSVTDSNSDSEDESGMNFLEKRALNIKQNKAMLAKLMSELESFPGSFRGR  
HPLPGSDSQSRRPRRRTFPGVASRRNPERRARPLTRSRSRILGSLDALPMEEEEEEDKYMLVRKRKTVDGYMNED  
DLPRSRRSRSSVTLPHIIRPVEEITEELENVCSNSREKIYNRSLGSTCHQCRQKTIDTKTNCRNPDWGVRGQF  
CGPCLRNRYGEEVRDALLDPNWHCPPCRGICNCSEFCRQRDGRCATGVLVYLAKYHGFGNVHAYLKSLKQEFEMQA

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**FIGURE 907**

GCAAGATGGCAGAAGTAGAGCAGAAGAAGAAGCGGACCTTCGCAAGTTCACCTACCGCGGCGTGGACCTGGACC  
AGCTGCTGGACATGTCCTACGAGCAGCTGGAGCAGCCGATGCAGCTGTACAGTGC GCGCCAGCGGCGGCGGCTGA  
ACCGGGGCTGCGGCGGAAGCAGCACTCCCTGCTGAAGCGCCTGCGCAAGGCCAAGAAGGAGGCGCGCCCATGG  
AGAAGCAGGAAGTGGTGAAGACGCACCTGCGGGACATGATCATCTACCCGAGATGGTGGGCAGCATGGTGGGCG  
TCTACAACGGCAAGACCTTCACCTACAAGCCCGTAAAGCACGGCCGGCCCGGCATCGGGGCCACCCACTCCTCCC  
GCTTCATCCCTCTCAAGTAAATGGCTCAGCTAATAAAGGCGCACATGACTCC

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**FIGURE 908**

MAEVEQKKKRTFRKFTYRGVDLDQLDMSYEQLEQPMQLYSARQRRRLNRGLRRKQHSLLKRLRKAKKEAPPMEK  
QEVVKTHLRDMIILPEMVGSMVGVYNGKTFTYKPVKHGRPGIGATHSSRFIPLK

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**FIGURE 909**

GCTGAAATTAAAAGTACTGAGCTTACCAAGTGTGATAAGGATGTAGAGGAACTGGAACTTTCATACACTGCTGG  
TGGGAATATAAAATGGTATAACCATTTTGGAAACAACCTTGGCAGTTTATTTGTTTGTGTTAGGTTGTTTTACTC  
ACCACTATGCTAACGAGGAACTTGGCAGTTTCTTTAAAAGATAAACATATATCTCTGGTCCGTGCCTCCAAGATG  
ACAAAGAAAAGAAGGAACAACGGTCATGCCAAAAGGGCCGCGGCCACGTGCATCCTATTGCTGCACTAACTGT  
ACCCGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTTCGAAACGTAGTGGAGGCCGAGCAGTCAGG  
GACATTTCTGAAGTGAGCGTCITCAATGCCTATGTGCTTCCCAAGCTGTATGTGAAGCTATATTACTGTGTGAGT  
TGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCACAAAGACCGAACACCCCCACCTGATTT  
AGACCTGTGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGGAGCTGAGTTCTTAAAGACTGAAGACAGA  
CTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

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**FIGURE 910**

CTTTTATGTTAGATGAGGAAGGGGATACCCAAACAGAGGAAACCCGGCCTTCAGAAACAAAAGAAGTGGAGCCAG  
AGCCAACTGAGGACAAAGATTTGGAAGCTGATGAAGAGGACACTAGGAAAAAAGATGCTTCTGATGATCTAGATG  
ACTTGAACCTCTTTAATCAAAGAAAAAGAAGAAAAAACTAAAAAGATATTTGATATTGATGAAGCTGAAGAAG  
GTGTAAAGGATCTTAAGATTGAAAGTGATGTTCAAGAACCAACTGAACCAGAGGATGACCTTGACATTATGCTTG  
GCAATAAAAAGAAGAAAAAGAAGAAATGTTAAGTTCCCAGATGAGGATGAAGCTCTAGAAGATGAAGACAACAAA  
AAGATGATGGTATCTCATTCAAGTAATCAGACAGGCCCTGCTTGGGCAGGCTCAGAAAGAGACTACACATACGAGG  
AGCTGCTGAATCGAGTGTCAACATCATGAGGGAAAAGAATCCAGATATGGTTGCTGGGGAGAAAAGGAAATTTG  
TCATGAAACCTCCACAAGTCGTCCGAGTAGGAACCAAGAAAACCTTCTTTTGTCAACTTTACAGATATCTGTAAAC  
TTGGTTCTATAGATGGTAATAACCAACTTGTAATCAAAGGAAGATTCCAACAGAAACAGATAGAAAATGTCTTGA  
GAAGATATATCAAGGAGTATGTCACTTGTACACATGCCGATCACCGACACAATCCTGCAGAAGGACATGCGAC  
TCTATTTCTACAGTGCAGAACTTGTCTTCTAGATGTTCTGTTGCCATTATCAAATTTGGCTTCCAGGCTGTCA  
TGGGCAAGCGAGCACAGCTCCGTGCCAAAGCTAACTAATTTGCTAATCACTGATTTTGCAAAGCTTGTGTGGAG  
ATGTGGCTGGACAGGTTTGCCATCAGAGTGGATATAACATTGTATTAAAAACAAGATAAAAAAGCTGCCAAGATT  
TTTGGCGAGTGGTTGGTTGGTCTGAAGTCCTTGCAAGACGCTGATGCTCAAGCTGTTGACATACTCATGCTTAC  
TTTAACACCTGTCAGAGAAACGTGATATGGGGTAAGGAGGTGCTTTTTTAAATAGTTCATAGACTTCTGTAAAA  
TGCAAGATAAATTAAAGTTATTATAACAGTGA



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**FIGURE 911**

GGTGGGAGAGGTATCGGCAGGGGCAGCGCTGCCGCCGGGGCCTGGGGCTGACCCGTCTGACTTCCCGTCCGTGCC  
GAGCCCACTCGAGCCGCAGCCATGTCTGGGGACGAGATGATTTTTGATCCTACTATGAGCAAGAAGAAAAAGAAG  
AAGAAGAAGCCTTTTATGTTAGATGAGGAAGGGGATACCCAAACAGAGGAAACCCGGCCTTCAGAAACAAAAGAA  
GTGGAGCCAGAGCCAACTGAGGACAAAGATTTGGAAGCTGATGAAGAGGACACTAGGAAAAAAGATGCTTCTGAT  
GATCTAGATGACTTGAACCTCTTTAATCAAAAGAAAAAGAAGAAAAAACTAAAAAGATATTTGATATTGATGAA  
GCTGAAGAAGGTGTAAAGGATCTTAAGATTGAAAGTGATGTTCAAGAACCAACTGAACCAGAGGATGACCTTGAC  
ATTATGCTTGGCAATAAAAAGAAGAAAAAGAAGATGTTAAGTTCCCAGATGAGGATGAAGCTCTAGAAGATGAA  
GACAACAAAAAGATGATGGTATCTCATTCAAGTAATCAGACAGGCCCTGCTTGGGCAGGCTCAGAAAGAGACTAC  
ACATACGAGGAGCTGCTGAATCGAGTGTTCAACATCATGAGGGAAAAGAATCCAGATATGGTTGCTGGGGAGAAA  
AGGAAATTTGTCATGAAACCTCCACAAGTCGTCCGAGTAGGAACCAAGAAAACCTCTTTTGTCAACTTTACAGAT  
ATCTGTAAACTATTACATCGTCAACCCAAACATCTCCTTGCAATTTTATTGGCTGAATTGGGTACAAGTGTTCT  
ATAGATGGTAATAACCAACTTGTAATCAAAGGAAGATTCACACAGAAACAGATAGAAAATGTCTTGAGAAGATAT  
ATCAAGGAGTATGTCACTTGTCACACATGCCGATCACC GGACACAATCCTGCAGAAGGACATGCGACTCTATTTT  
CTACAGTGCGAACTTGTCATTCTAGATGTTCTGTTGCCATTATCAAAATTGGCTTCCAGGCTGTCATGGGCAAG  
CGAGCACAGCTCCGTGCCAAAGCTAACTAATTTGCTAATCACTGATTTTGCAAAGCTTGTTGTGGAGATGTGGCT  
GGACAGGTTTGCCATCAGAGTGGATATACCATTGTATTAAAAACAAGATAAAAAAGCTGCCAAGATTTTGGCGA  
GTGGTTGGTTGGTCTGAAGTCCTTGCAAGACGCTGATGCTCAAGCTGTTGACATACTCATTGCCTACTTTAACAC  
CTGTCAGAGAAACGTGATATGGGGTAAGGAGGTGCTTTTTTAAATAGTTTCATAGACTTCTGTAAATGCAAGAT  
AAATTAAAGTTATTATAACAGTGA

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**FIGURE 912**

CGAGTTGGAAGAGGCGAGTCCGGTCTCAAAATGGAGGTAAAACCGCCGCCCGGTGCGCCCCAGCCCGACTCCGGC  
CGTCGCCGTGCGCCGCCGGGGGGAGGAGGGCCATGATCCAAAGGAACCAGAGCAGTTGAGAAAACGTGTTTATTGGT  
GGTCTGAGCTTTGAAACTACAGATGATAGTTTACGAGAACATTTTGAGAAATGGGGCACACTCACAGATTGTGTG  
GTAATGAGAGACCCCCAAACAAAACGTTCCAGGGGCTTTGGTTTTGTGACTTATTCTTGTGTTGAAGAGGTGGAT  
GCAGCAATGTGTGCTCGACCACACAAGGTTGATGGGCGTGTAGTGGAACCAAAGAGAGCTGTTTCTAGAGAGGAT  
TCTGTAAAGCCTGGTGGCCATCTAACAGTGAAGAAAATTTTGTGGTGGTATTAAAGAAGATACAGAAGAATAT  
AATTTGAGAGACTACTTTGAAAAGTATGGCAAGATTGAAACCATAGAAGTTATGGAAGACAGGCAGAGTGGAAAA  
AAGAGAGGATTTGCTTTTGTAACTTTGTATGATCATGATACAGTTGATAAAATTGTTGTTTCAGAAAATACCACACT  
ATTAATGGGCATAATTGTGAAGTGAAGGAGGCCCTTTCTAAACAAGAGATGCAGTCTGCTGGATCACAGAGAGGT  
CGTGGAGGTGGATCTGGCAATTTTATGGGTCGCGGAGGGAACTTTGGAGGTGGTGGAGGTAATTTTGGCCGTGGT  
GGAAACTTTGGTGGAGAGGTAGGCTATGGTGGTGGAGGTGGTGGCAGCAGAGGTAGTTATGGAGGAGGTGATGG  
TGATATAATGGATTGGAGGTGATGGTGGCAACTATGGCGGTGGTCTGTTATAGTAGTAGAGGGGGCTATGG  
TGGTGGTGGACCAGGATATGGAACCAAGGTGGTGGATATGGTGGAGGTGGAGGATATGATGGTTACAATGAAGG  
AGGAAATTTTGGCGGTGGTAACTATGGTGGTGGTGGGAACATAATGATTTTGGAAATTATAGTGGACAACAGCA  
ATCAAATTATGGACCCATGAAAGGGGGCAGTTTGGTGGAGAAGCTCGGGCAGTCCCTATGGTGGTGGTTATGG  
ATCTGGTGGTGAAGTGGTGGATATGGTAGCAGAAGGTTCTAAAAACAGCAGAAAAGGGCTACAGTTCTTAGCAG  
GAGAGAGAGCGAGGAGTTGTCAGGAAAGCTGCAGGTTACTTTGAGACAGTCGTCCCAAATGCATTAGAGGAACTG  
TAAAAATCTGCCACAGAAGGAACGATGATCCATAGTCAGAAAAGTTACTGCAGCTTAAACAGGAAACCCCTTCTTG  
TTCAGGACTGTCATAGCCACAGTTTGCAAAAAGTGCAGCTATTGATTAATGCAATGTAGTGTCAATTAGATGTAC  
ATTCTGAGGTCTTTTATCTGTTGTAGCTTTGTCTTTTTCTTTTTCTTTTTCATTACATCAGGTATATTGCCCTGT  
AAATTGTGGTAGTGGTACCAGGAATAAAAAATTAAGGAATTTTAACTTTTCAATATTTGTGTAGTTCAGTTTTT  
CTACATTTTAGTACAGAACTTTAACAAAATGCAGTTTCGAAGGTGTTTCCTTGTGAGTTAACAAGTAAAGAAGA  
TCATTGTTAATTACTATTTTGATGAATTTTGCTAAAGTTAACTGTAAAGAAACACCTGCTGACTTGCAGTTTAA  
GGGGAATCTATTCTCCCATTTCCAAACCATGATATGAATGGGCGCTGACATGTGGAGAGAATAGATAATTTGTG  
TGTTTGCAATGTGTGTTTAGATAAATAGGATTGGGTATTTAAATTAGCATTGTGAATTTAATAGCATTAAAGAT  
TACCTTCAAATGAAAAAAATCTCAAAATTTCTATTTGGTTTTGTGCATTTCTTTTAAATGTAATCATATGA  
TTTTAGTGTGTTAGACTTGCTGAGTCCTAGCTGTGTTTAGAACATCTCTATTCTACATTTACCTTGGTCAAATTT  
GAACTGCTGCCATAGG

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**FIGURE 913**

MEGHDPKEREQLRKFFIGGLSFETITDDGLREHFKEKVVTLTDCVVMRDPQTKCSRGFGFVTYSYIEEVDAAMCAPP  
HKVDGCVVEPKRAVSREDFVKPGAHLTVKKIFVGGIKIQKNII

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**FIGURE 914**

CTTCATCCTGCGACTAGCACCGCGTCCGGCAGCGCCTGCCCTACACTCGCCCGTGCCATGGCCTCCGTCTCCAAG  
CTCGCCTGCATCTACTCGGCCCTCATTCTGCACGACGATGAGGTGACAGTCACGGAGGATAAGATCAATGCCCTC  
ATTAAAGCAGCCGGTGTAATGTTGAACCTTTTTGGCCTGGCTTGTTTGCAAAGGCCCTGGCCAACGTCAACATT  
GGGAGCCTCATCTGCAATGTAGGGGCTGGTGGACCTGCTCCAGCTGAGGAGAAGAAAGTGGGAAGCAAAGAAAGAA  
GAATCCAAGGAGTCTGATGATGACATGGGCCTTGGTCTTTTGACTAAACCTCTTTTATAACGTGTTCAATAAAA  
AGCTGAACCT

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**FIGURE 915**

MASVSKLACIYSALILHDDEVTVTEDKINALIKAAGVNVEPFWPGLFAKALANVNI  
GSLICNVGAGGPAPAEKK  
VEAKKEESKESDDDMGLGLFD

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**FIGURE 916**

ACGGGGCCTGGGCGGSAGGGGCGGTGGCTGGAGCTCGGTAAAGCTCGTGGGACCCCATTTGGGGGAATTTGATCCA  
AGGAAGCGGTGATTGCCGGGGGAGGAGAAGCTCCCAGATCCTTGTGTCCACTTGCAGCGGGGGAGGCGGAGACGC  
GGAGCGGGCCTTTTGGCGTCCACTGCGCGGCTGCACCCTGCCCCATCCTGCCGGGATCATGCTCTGCGGCAGCCC  
GGGAGGGATGCTGCTGCTGCGGGCCGGGCTGCTTGCCCTGGCTGCTCTGCTGCTGCCGGTGCCCGGGGCTCG  
GGCTGCAGCCTGTGAGCCCGTCCGCATCCCCCTGTGCAAGTCCCTGCCCTGGAACATGACTAAGATGCCCAACCA  
CCTGCACCACAGCACTCAGGCCAACGCCATCCTGGCCATCGAGCAGTTCGAAGGTCTGCTGGGCACCCACTGCAG  
CCCCGATCTGCTCTTCTTCTCTGTGCCATGTACGCGCCCATCTGCACCATTGACTTCCAGCACGAGCCCATCAA  
CCCCTGTAAGTCTGTGTGCGAGCGGGCCCGGCAGGGCTGTGAGCCCATACTCATCAAGTACCGCCACTCGTGGCC  
GGAGAACCTGGCCTGCGAGGAGCTGCCAGTGTACGACAGGGGCGTGTGCATCTCTCCCGAGGCCATCGTTACTGC  
GGACGGAGCTGATTTTCCTATGGATTCTAGTAACGGAACTGTAGAGGGGCAAGCAGTGAACGCTGTAAATGTAA  
GCCTATTAGAGCTACACAGAAGACCTATTTCCGGAACAATTACAACATATGTCATTGGGGCTAAAGTTAAAGAGAT  
AAAGACTAAGTGCCATGATGTGACTGCAGTAGTGGAGGTGAAGGAGATTCTAAAGTCTCTCTGGTAAACATTCC  
ACGGGACACTGTCAACCTCTATACCAGCTCTGGCTGCCTCTGCCCTCCACTTAATGTTAATGAGGAATATATCAT  
CATGGGCTATGAAGATGAGGAACGTTCCAGATTACTCTTGGTGAAGGCTCTATAGCTGAGAAGTGAAGGATCG  
ACTCGGTAAAAAAGTTAAGCGCTGGGATATGAAGCTTCGTCATCTTGGACTCAGTAAAAGTGATTCTAGCAATAG  
TGATTCCACTCAGAGTCAGAAGTCTGGCAGGAACTCGAACCCCGGCAAGCACGCAACTAAATCCCGAAATACAA  
AAAGTAACACAGTGGACTTCCTATTAAGACTTACTTGCATTGCTGGACTAGCAAAGGAAAATTGCACTATTGCAC  
ATCATATTCTATTGTTTACTATAAAAATCATGTGATAACTGATTATTACTTCTGTTTCTCTTTTGGTTTCTGCTT  
CTCTTCTCTCAACCCCTTTGTAATGGTTTGGGGGCAGACTCTTAAGTATATTGTGAGTTTTCTATTTCACTAA  
TCATGAGAAAACTGTTCTTTTGCAATAATAATAAATTAAACATGCTGTTA

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**FIGURE 917**

MVCGSPGGMLLLRAGLLALAALCLLRVPGARAAACEPVRIPLCKSLPWNMTKMPNHLHHSTQANAILAIEQFEG  
LGTHCSPDLLFFLCAMYAPICTIDFQHEPINPCKSVCEARQGCEPILIKYRHSWPENLACEELPVYDRGVCISP  
EAIVTADGADFPMDSSNGNCRGASSERCKCKPIRATQKTYFRNNYNYVIRAKVKEIKTKCHDVTAVVEVKEILKS  
SLVNIPRDTVNLYTSSGCLCPPLNVNEEYIIMGYEDEERSRLLLVEGSIAEKWKDRLGKKVKRWDMKLRHLGLSK  
SDSSNSDSTQSQKSGRNSNPRQARN

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**FIGURE 918**

ATGTCCATCAGGACGACCCAGAAGTCCTACAGGGTGTCCACTTCTGGCCCCCGGGCCTTCAGCAGCCATTTCTAC  
ACAAGTGGGCCTGGTGCCTCCATCAGCTCCTCGAGCTTCTCCCAAGTGGGCAGCAGCAGCTTCCGGGGTGGCCTG  
GGAGGAGGCTACGGTGGGGCCAGTGGCATGGGAGGCATCACCACCGTCACTGTCAACCAGAGCCTGCTGAGCCCC  
CTTAACCTGGAGGTGGACCCACACATCCAGGCAGTGCACACTCAGAAGAAGGAGCAGATCAAGACCCTCAACACT  
AAGTTTGCCACCTTCATATACAAGAGTTACATCAACAACCTTAGGCAGCAGCTGGAGACTCTGGGCCAGGAAAAG  
CTGAAGCTGGAGGCGGAGCTTGGAACATGCAGGGGCTGGTGGAGGACTTCAAGAACAAGTATGAGGATGAGATC  
AATAAGCGTACAGAGATGGAGAATGAATTTGTCTCATCAAGAAGGATGTGGATGAAGCTTACCTGAACAAGGTA  
GAGCTGGAGTCTCGCCTGGAAGGGCTGACTGACGAAATCAACTTCCTCAGGCAGCTGTATGAAGAGGATATCCCG  
GAGCTGCAGTCCCAGATCTCAGACACGTCTGTGGTGTGCCCATGGACAACAGCCACTCCCTGGACATGGACAGC  
ATCATCAATGAGGTCAAGCGCAGTACGAGATCACCAACCGCAGCCAGCTGGCTCCAGGCAGAGATTGAGGGTCTC  
AAAGGCCAGAGGGCTTCCCTGGAGGCCGCCATCGCAGATGCGGAGCAGCGCGGGGAGTTGGCCGTTAAGGATGCC  
AGCGCCAAGCTGTCTGAGCTGGAGGCCGCCCTGCAGCAAACCAAGCAGGACGTGGAGCTGATGAACGACAAGCTG  
GCCCTGGACATTGAGATCGCCACCTACAGGCAGCTGCTGGAGGGCGAGGAGAGCTGGCTGGAGTCTGGGATGCAG  
AGCATGAGTATCCATACAAAGACCATCAGCAGCTATGCAGGTGGTCTGAGCTCGGCCTATGGGGGCCTCACAAGC  
CCCGCCTCAGCTGTGGACTGGGCTCCAGCTTTGGCTCTGGCGCGGGCTCCAGTTCCTTCAGCTGCATCAGCTAC  
ACCAGGGCCGTGGTTGTGAAGAAGATTGAGACCCGTGATGGGACGCTGGTGTCAAGTTCTCTGACGTCCTGCCC  
AAGTGA



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**FIGURE 919**

MSIRTTQKSYRVSTSGPRAFSSHFYTSGPGASISSSSFQVGSSSFRGGLGGGYGGASGMGGITTVTVNQSLSP  
LNLEVDPHIQAVHTQKKEQIKTLNKFATFIYKSYINNLRQOLETLGQEKLEAELGNMQGLVEDFKNKYEDEI  
NKRTEMENEFVLIKKDVDEAYLNKVELESRLGLELTDEINFLRQLYEEDIPELQSQISDTSVVLPMDNSHSLDMS  
IINEVKRSTRSPTAASWLQAEIEGLKGQRASLEAAIADAEQORGELAVKDASAKLSELEAALQQTQDVLMNDKL  
ALDIEIATYRQLLEGEESWLESGMQSMSIHTKTISSYAGGLSSAYGGLTSPGLSCGLGSSFGSGAGSSSFSCISY  
TRAVVVKKIETRDGTLVSEFSDVLPK

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**FIGURE 920**

ACGCAACCCCATAGGTAGCACGCCGTTACCCGTGGGGAGCGTTCCGCCATTTTGGAAAATTAATTGGGAAGGT  
ACTGGTTTTAAGTGTAGTTGCCGACGCAATGGCAGCCTTTGCAGTGGAACCTCAGGGGCGCGTTAGGATCTGA  
ACCAATGATGCTGGGTTACCCACATCTCCAAAGCCAGGAGTTAATGCCAGTTCTTACCTGGATTTTAAATGGG  
GGATTTGCCAGCTCCGGTGACTCCACAACCTCGATCAATTAGTGGCCCTTCAGTAGGAGTAATGGAAATGAGATC  
ACCTTTACTTGCCAGGTGGGTCAACCACCACAACCAAGTTGTACCAGCTCATAAAGATAAAAGTGGCGCTCCACCAGT  
TAGAAGTATATATGATGACATTCTAGCCCAGGACTTGGATCAACACCTTTAACTTCAAGAAGACAGCCAAACAT  
TTCAGTAATGCAGAGTCTCTTGTGGAGTTACATCTACTCCTGGAAACAGGGCAAAGTATGTTTAGTCCAGCAAG  
TATCGGTGAGCCAGCAAGACGACATTATCTCCTGCCAGTTGGATCCTTTTTTATACTCAAGGAGATTCTTTGAC  
TTCAGAAGATCACCTCGATGACTCTTGGGTGACTGTATTTGGGTTTCTCAAGCATCTGCTTCTACATATTACT  
ACAATTTGCACAGTATGGGAATATCTTAAACATGTGATGTCTAATACAGGAAATTGGATGCATATTCGTTATCA  
ATCTAAACTGCAGGCTCGGAAAGCCTTAAGCAAAGATGGGAGGATTTTGGAGAATCCATCATGATTGGTGTA  
ACCATGTATTGACAAAAGTGTTATGGAAAGCAGTGACAGATGTGCTTTATCATCTCCATCTTTAGCCTTTACACC  
ACCAATCAAACTCTAGGTACACCAACAACCTGGAAGTACTCCTAGGATTTCTACCATGAGACCTCTTGCTAC  
AGCATACAAAGCCTCTACTAGTGATTATCAGGTTATTTCTGACAGACAAACGCCAAAAAAGATGAAAGTCTTGT  
ATCCAAAGCAATGGAGTACATGTTTGGCTGGTAGTAGAACACCAAGAAGGAGGTGCTACACTAAAACAGAGTTA  
GCAGAGTGCTGCTGGTTTCCTTCGGTTAGTTATATAACTGTTCTGCGAGTATTGGATAGCTATCTCATACTTCTTT  
TAGAAAGAAGCCTTTTTTCATTAAAGGATACAACCTATTTGTAGCTCGCACTTTAAAGATGCTTGAGATACATTTT  
AAAGAAAACATAAAATCCCTGTAAATAGGATTTTGTGCTTTCTGTAAACAGTGCATGCTTCAGCACAGAAAACCA  
GCATTGATTATTGTAAATTAATAACTGAAATTGTGGTGAGACGTCATAGTCTTCATGAGAACGTGGGGGTGAAT  
TTCATGAAGGGGAACATATAGTTATTTCTACCGACACAAATATTATAATTAGCAATTTGAATTATGGTCTTTTAAT  
TTAGATAGTATTTAATATTTTAATTATCCTTGTTTGTATATGTCCTGTCACAGAGTGTCTCTTGGTGTATTCTA  
AAACGAGCATTTCTTTAAAAAACCTAAAGTTTCTTGATAATAAACATTGTCAATGAT

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**FIGURE 921A**

GGCTGAGTTTTATGACGGGCCCCGGTGCTGAAGGGCAGGGAACAACCTTGATGGTGCTACTTTGAACTGCTTTTCTT  
TTCTCCTTTTTTGCACAAAGAGTCTCATGTCTGATATTTAGACATGATGAGCTTTGTGCAAAAGGGGAGCTGGCTA  
CTTCTCGCTCTGCTTCATCCCACTATTATTTTGGCACAAACAGGAAGCTGTTGAAGGAGGATGTTCCCATCTTGGT  
CAGTCTATGCGGATAGAGATGTCTGGAAGCCAGAACCATGCCAAATATGTGTCTGTGACTCAGGATCCGTTCTC  
TGCGATGACATAATATGTGACGATCAAGAATTAGACTGCCCAACCCAGAAATTCATTGGAGAATGTTGTGCA  
GTTTGGCCACAGCCTCCAACTGCTCCTACTCGCCCTCCTAATGGTCAAGGACCTCAAGGCCCAAGGGAGATCCA  
GGCCCTCCTGGTATTCTGGGAGAAATGGTGACCCTGGTATTCCAGGACAACCAGGGTCCCTGGTTCTCTGGC  
CCCCCTGGAATCTGTGAATCATGCCCTACTGGTCTCAGAACTATTCTCCCCAGTATGATTATATGATGTCAAG  
TCTGGAGTAGCAGTAGGAGGACTCGCAGGCTATCCTGGACCAGCTGGCCCCCAGGCCCTCCCGGTCCCCCTGGT  
ACATCTGGTCATCTGGTTCCCTGGATCTCCAGGATACCAAGGACCCCCCTGGTGAACCTGGGCAAGCTGGTCCT  
TCAGGCCCTCCAGGACCTCCTGGTGCTATAGGTCCATCTGGTCTGCTGGAAAAGATGGAGAATCAGGTAGACCC  
GGACGACCTGGAGAGCGAGGATTGCCTGGACCTCCAGGTATCAAAGGTCCAGCTGGGATACCTGGATTCCCTGGT  
ATGAAAGGACACAGAGGCTTCGATGGACGAAATGGAGAAAAGGGTGAAACAGGTGCTCCTGGATTAAAGGGTGAA  
AATGGTCTTCCAGGCGAAAATGGAGCTCCTGGACCCATGGGTCCAAGAGGGGCTCCTGGTGAGCGAGGACGGCCA  
GGACTTCTGGGGCTGCAGGTGCTCGGGGTAATGACGGTGCTCGAGGCAGTGATGGTCAACCAGGCCCTCCTGGT  
CCTCCTGGAATGCGCGATTCCCTGGATCCCTGGTGCTAAGGGTGAAAGTTGGACCTGCAGGGTCTCCTGGTTCA  
AATGGTGCCCTGGACAAAGAGGAGAACCTGGACCTCAGGGACACGCTGGTGCTCAAGGTCTCCTGGCCCTCCT  
GGGATTATGGTAGTCTTGGTGGTAAAGGCGAAAATGGGTCCCGCTGGCATTCTGGAGCTCCTGGACTGATGGGA  
GCCCCGGGTCTCAGGACCAGCCGGTGCTAATGGTGCTCCTGGACTGCGAGGTGGTGAGGTGAGCCTGGTAAG  
AATGGTGCCAAAGGAGAGCCCCGACCACGTGGTGAACGCGGTGAGGCTGGTATTCCAGGTGTTCCAGGAGCTAAA  
GGCGAAGATGGCAAGGATGGATCACCTGGAGAACCTGGTGCAAATGGGCTTCCAGGAGCTGCAGGAGAAAGGGT  
GCCCCGGGTTCAGGAGACCTGCTGGACCAAATGGCATCCAGGAGAAAAGGGTCTGCTGGAGAGCGTGGTGCT  
CCAGGCCCTGCAGGGCCAGAGGAGCTGCTGGAGAACCTGGCAGAGATGGCGTCCCTGGAGGTCCAGGAATGAGG  
GGCATGCCCGGAAGTCCAGGAGGACCAGGAAGTGATGGGAAACCAGGGCCTCCCGGAAGTCAAGGAGAAAGTGGT  
CGACCAGGTCTCCTGGGCCATCTGGTCCCGAGGTGAGCTGGTGCTATGGGCTTCCCCGGTCTTAAAGGAAAT  
GATGGTGCTCCTGGTAAGAAATGGAGAACGAGGTGGCCCTGGAGGACCTGGCCCTCAGGGTCTCTGGAAAGAAAT  
GGTGAACTGGACCTCAAGGACCCCCAGGGCTACTGGGCTGGTGGTGACAAAGGAGACACAGGACCCCCGGT  
CCACAAGGATTACAAGGCTTGCTGGTACAGGTGGTCTCCAGGAGAAAATGGAAAACCTGGGGAACCAAGGTCCA  
AAGGGTGATGCCGGTGACCTGGAGCTCCAGGAGGCAAGGGTGATGCTGGTGCCCTGGTGAACGTGGACCTCCT  
GGATTGGCAGGGGCCCCAGGACTTAGAGGTGGAGCTGGTCCCCCTGGTCCCGAAGGAGGAAAGGGTGCTGCTGGT  
CCTCCTGGGCCACCTGGTGCTGCTGGTACTCCTGGTCTGCAAGGAATGCCTGGAGAAAGAGGAGGTCTTGAAGT  
CCTGGTCCAAAGGGTGACAAGGGTGAAACAGGCGGCCAGGTGCTGATGGTGCTCCAGGGAAAGATGGCCCAAGG  
GGTCTACTGGTCTATTGGTCTCCTGGCCAGCTGGCCAGCCTGGAGATAAGGGTGAAGGTGGTGGCCCCGGA  
CTTCCAGGTATAGCTGGACCTCGTGGTAGCCCTGGTGAGAGAGGTGAAACTGGCCCTCCAGGACCTGCTGGTTTC  
CCTGGTGCTCCTGGACAGAATGGTGAACCTGGTGGTAAAGGAGAAAGAGGGGCTCCGGGTGAGAAAGGTGAAGGA  
GGCCCTCCTGGAGTTGACAGGACCCCCCTGGAGGTTCTGGACCTGCTGGTCTCCTGGTCCCCAAGGTGTCAAAGGT  
GAACGTGGCAGTCTTGGTGGACCTGGTGCTGCTGGCTTCCCTGGTGCTCGTGGTCTTCTGGTCTCCTGGTAGT  
AATGGTAACCCAGGACCCCCAGGTCCCAGCGTTCTCCAGGCAAGGATGGGCCCCCAGGTCTGCGGGTAACACT  
GGTGCTCCTGGCAGCCCTGGAGTGCTGAGACCAAAGGTGATGCTGGCCAACCAGGAGAGAAGGGATCGCCTGGT  
GCCCCAGGGCCACAGGAGCTCCAGGCCACTTGGGATTGCTGGGATCACTGGAGCACGGGGTCTTGCAGGACCA  
CCAGGCATGCCAGCTCCTAGGGGAAGCCCTGGCCCTCAGGGTGTCAAGGGTGAAAGTGGGAAACAGGAGCTAAC  
GGTCTCAGTGGAGAACGTGGTCCCCCTGGACCCAGGGTCTTCTGGTCTGGCTGGTACAGCTGGTGAACCTGGA  
AGAGATGGAAACCTGGATCAGATGGTCTTCCAGGCCGAGATGGATCTCCTGGTGGCAAGGGTGATCGTGGTGAA  
AATGGCTCTCCTGGTGCCCTGGCGCTCCTGGTCTATCCAGGCCACCTGGTCTGTGGTCCAGCTGGAAAGAGT  
GGTGACAGAGAGAAAGTGGCCCTGCTGGCCCTGCTGGTGCTCCCGGTCTGCTGGTTCCCGAGGTGCTCCTGGT  
CCTCAAGGCCACGTGGTGACAAAGGTGAAACAGGTGAACGTGGAGCTGCTGGCATCAAAGGACATCGAGGATTC  
CCTGGTAATCCAGGTGCCCCAGGTCTCCAGGCCCTGCTGGTTCAGCAGGGTGCAATCGGCAGTCCAGGACCTGCA  
GGCCCCAGAGGACCTGTTGGACCCAGTGGACCTCCTGGCAAAGATGGAACCAAGTGGACATCCAGGTCCCATTGGA

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**FIGURE 921B**

CCACCAGGGCCTCGAGGTAACAGAGGTGAAAGAGGATCTGAGGGCTCCCCAGGCCACCCAGGGCAACCAGGCCCT  
CCTGGACCTCCTGGTGCCCCCTGGTCCTTGCTGTGGTGGTGTGGAGCCGCTGCCATTGCTGGGATTGGAGGTGAA  
AAAGCTGGCGGTTTTGCCCGTATTATGGAGATGAACCAATGGATTTCAAAATCAACACCGATGAGATTATGACT  
TCACTCAAGTCTGTTAATGGACAAATAGAAAGCCTCATTAGTCCTGATGGTTCTCGTAAAAACCCGCTAGAAAC  
TGCAGAGACCTGAAATTCTGCCATCCTGAACTCAAGAGTGGAGAATACTGGGTTGACCCTAACCAAGGATGCAAA  
TTGGATGCTATCAAGGTATTCTGTAATATGGAACTGGGGAAACATGCATAAGTGCCAATCCTTTGAATGTTCCA  
CGGAAACACTGGTGGACAGATTCTAGTGCTGAGAAGAAACACGTTTGGTTTGGAGAGTCCATGGATGGTGGTTTT  
CAGTTTAGCTACGGCAATCCTGAACTTCCTGAAGATGTCCTTGATGTGCAGCTGGCATTCTTCGACTTCTCTCC  
AGCCGAGCTTCCCAGAACATCACATATCACTGCAAAAATAGCATTGCATACATGGATCAGGCCAGTGGAAATGTA  
AAGAAGGCCCTGAAGCTGATGGGGTCAAATGAAGGTGAATTCAGGCTGAAGGAAATAGCAAATTCACCTACACA  
GTTCTGGAGGATGGTTGCACGAAACACACTGGGGAATGGAGCAAAACAGTCTTTGAATATCGAACACGCAAGGCT  
GTGAGACTACCTATTGTAGATATTGCACCCATGACATTGGTGGTCCTGATCAAGAATTGGTGTGGACGTTGGC  
CCTGTTTGCTTTTTATAAACCAAACCTCTATCTGAAATCCCAACAAAAAAATTTAACTCCATATGTGTTCCTCTT  
GTTCTAATCTTGTCAACCAGTGCAAGTGACCGACAAAATTCAGTTATTTATTTCCAAAATGTTTGGAAACAGTA  
TAATTTGACAAAGAAAAATGATACTTCTCTTTTTTTGCTGTTCCACCAAATACAATTCAAATGCTTTTTGTTTTA  
TTTTTTTACCAATTCCAATTTCAAAATGTCTCAATGGTGCTATAATAAATAAACTTCAACACTCTTTATGATAAC  
AACACTGTGTTATATTCTTTGAATCCTAGCCCATCTGCAGAGCAATGACTGTGCTCACCAGTAAAAGATAACCTT  
TCTTTCTGAAATAGTCAAATACGAAATTAGAAAAGCCCTCCCTATTTTAACTACCTCAACTGGTCAGAAACACAG  
ATTGTATTCTATGAGTCCCAGAAGATGAAAAAATTTTATACGTTGATAAAACTTATAAATTTCAATTGATTAATC  
TCCTGGAAGATTGGTTTAAAAAGAAAAGTGTAATGCAAGAATTTAAAGAAATATTTTAAAGCCACAATTATTTT  
AATATTGGATATCAACTGCTTGTAAGGTGCTCCTCTTTTTTCTTGTCATTGCTGGTCAAGATTACTAATATTTG  
GGAAGGCTTTAAAGACGCATGTTATGGTGCTAATGTACTTTCACTTTTAACTCTAGATCAGAATTGTTGACTTG  
CATTGAGAACATAAATGCACAAATCTGTACATGTCTCCATCAGAAAGATTCAATTGGCATGCCACAGGGATTCT  
CCTCCTTCATCCTGTAAAGGTCAACAATAAAAACCAAATTATGGGGCTGCTTTTGTACACTAGCATAGAGAATG  
TGTGAAATTTAACTTTGTAAGCTTGATGTGGTTGTTGATCTTTTTTTTTCTTACAGACACCCATAATAAATA  
TCATATTAAATTC

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**FIGURE 922**

MMSFVQKGSWLLALLHPTIILAQQEAVEGGCSHLGQSYADRDVWKPEPCQICVCDSGSVLCDDIICDDQELDCP  
NPEIPFGECCA VCPQPTAPTRPPNGQGPQGPKGDPGPPGIPGRNGDPGIPGQPGSPGSPGPPGICESCPTGPN  
YSPQYDSYDVKSGVAVGGLAGYPGPAGPPGPPGPPGTSGHPGSPGSPGYQGGPEPGQAGPSGPPGPPGAIGPSG  
PAGKDGESGRPGRPGERGLPGPPGIKGPAGIPGFPGMKGHRGFDGRNGEKGETGAPGLKGENGLPGENGAPGPMG  
PRGAPGERGRPLPGAAGARGNDGARGSDGQGPFPGPPGTAGFPSPGAKGEVGPAGSPGSNGAPGQRGEPGPQG  
HAGAQQGPPGPPGINGSPGGKGEMGPAGIPGAPGLMGARGPPGPAGANGAPGLRGGAGEPGKNGAKGEPGPRGERG  
EAGIPGVPGAKGEDGKDGSPEPGANGLPGAAGERGAPGFRGPAGPNGIPGEKGPAGERGAPGPAGPRGAAGEPG  
RDGVPGGPGMRGMPGSPGGPGSDGKPGPPGSQGESGRPGPPGPGSPGPRGQPGVMGFPGPKGNDGAPGKNGERGGPG  
GPGPQGP PGKNGETGPGQPPGFTGPGGDKGDTGPPGPQGLQGLP GTGGPPGENGKPGEPGPKGDAGAPGAPGGKG  
DAGAPGERGPPGLAGAPGLRGGAGPPGPEGKGAAGPPGPPGAAGTPGLQGMPPGERGGLGSPGPKGDKGEPGGPG  
ADGVPGKDGPRGPTGPIGPPGPAGQPGDKGEGGAPGLPLGIAGPRGSPGERGETGPPGPAGFPAGQNGEPGGKG  
ERGAPGEKGEPPPGVAGPPGGSGPAGPPGPQGVKGERGSPGGPGAAGFPARGLP GPPGSNGNPGPPGPSGSPG  
KDGPPGPAGNTGAPGSPGVSGPKGDAGQPGKEKGSPPGAQQPPGAPGLGIAGITGARGLAGPPGMPGPRGSPGPQG  
VKGESGKPGANGLSGERGPFGPQGLPGLAGTAGEPGRDGNPGSDGLPGRDGSPGGKGDRENGSPGAPGAPGHPG  
PPGPVGPAGKSGDRGESGPAGPAGAPGPAGSRGAPGPQGPGRDKGETGERGAAGIKGHRGFPGNPGAPGSPGPAG  
QQGAIGSPGPAGPRGPVGPSPGPPKDGTS GHPPGPIGPPGPRGNRGERGSEGS PGHPGQPGPPGPPGAPGPCCGGV  
GAAAIAGIGGEKAGGFAPYYGDEPMDFKINTDEIMTSLKSVNGQIESLISP DGSRKNPARNCRDLKFCHPELKSG  
EYWVDPNQGCKLDAIKVFCNMETGETCISANPLNVRKHWTDSSAEKKHVWFGESMDGGFQFSYGNPELPEDVL  
DVQLAFLRLSSRASQNITYHCKNSIAYMDQASGNVKKALKLMGSNEGEFKAEGNSKFTYTVLEDGCTKHTGEWS  
KTVFEYRTRKAVRLPIVDIAPYDIGGPDQEFQVGVGPVCF

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**FIGURE 923**

ACGCGTCCGAGCTGGCTCAGGGCGTCCGCTAGGCTCGGACGACCTGCTGAGCCTCCCAAACCGCTTCCATAAGGC  
TTTGCCTTTCCAACCTCAGCTACAGTGTAGCTAAGTTTGGAAAGAAGGAAAAAGAAAATCCCTGGGCCCCCTT  
TCTTTTGTCTTTGCCAAAGTCGTCGTTGTAGTCTTTTGGCCAAGGCTGTTGTGTTTTAGAGGTGCTATCTCC  
AGTTCCTTGCACTCCTGTTAACAAGCACCTCAGCGAGAGCAGCAGCAGCGATAGCAGCCGCAGAAGAGCCAGCGG  
GGTCGCCCTAGTGTCATGACCAGGGCGGGAGATCACAACCGCCAGAGAGGATGCTGTGGATCCTTGGCCGACTACC  
TGACCTCTGCAAAATTCCTTCTCTACCTTGGTCATTCTCTCTACTTGGGGAGATCGGATGTGGCACTTTGCGG  
TGTCIGTGTCTTCTGGTAGAGCTCTATGGAACAGCCTCCTTTTGACAGCAGTCTACGGGCTGGTGGTGGCAGGGT  
CTGTTCTGGTCCTGGGAGCCATCATCGGTGACTGGGTGGACAAGAATGCTAGACTTAAAGTGGCCAGACCTCGC  
TGGTGGTACAGAAIGTTTCAGTCATCCTGTGTGGAATCATCTGATGATGGTTTTCTTACATAAACATGAGCTTC  
TGACCATGTACCATGGATGGGTTCTCACTTCTGTCTATATCTGATCATCACTATTGCAAAATTTGCAAAATTTGG  
CCAGTACTGCTACTGCAATCACAATCCAAAGGGATTGGATTGTTGTTGTTGTCAGGAGAAGACAGAAGCAAAGTAG  
CAAATATGAATGCCACAATACGAAGGATTGACCAGTTAACCAACATCTTAGCCCCATGGCTGTTGGCCAGATTA  
TGACATTTGGCTCCCCAGTCATCGGCTGTGGCTTTATTTGCGGATGGAACCTGGTATCCATGTGCGTGGAGTACG  
TCCTGCTCTGGAAGGTTTACCAGAAAACCCAGCTCTAGCTGTGAAAGCTGGTCTTAAAGAAGAGGAACTGAAT  
TGAAACAGCTGAATTTACACAAAGATACTGAGCCAAAACCCCTGGAGGGAACCTCATTAATGGGTGTGAAAGACT  
CTAACATCCATGAGCTTGAACATGAGCAAGAGCCTACTTGTGCCCTCCAGATGGCTGAGCCCTTCCGTACCTTCC  
GAGATGGATGGGTCTCCTACTACAACCAGCCTGTGTTTCTGGCTGGCATGGGTCTTGCTTTCCTTTATATGACTG  
TCCTGGGCTTTGACTGCATCACCACAGGGTACGCCCTACACTCAGGGACTGAGTGGTTCATCCTCAGTATTTGA  
TGGGAGCATCAGCTATAACTGGAATAATGGGAACGTAGCTTTTACTTGGCTACGTCGAAAATGTGGTTTGGTTC  
GGACAGGTCTGATCTCAGGATTGGCACAGCTTTCTGTTTGAICTTGTGTGTGATCTCTGTATTATGCTCTGGAA  
GCCCCCTGGACTTGTCCGTTTCTCCTTTTGAAGATATCCGATCAAGGTTCAATTCAAGGAGAGTCAATTACACCTA  
CCAAGATACCTGAAATTACAACGAAATATACATGTCTAATGGGTCTAATTCTGCTAATATTGTCCCGGAGACAA  
GTCCTGAATCTGTGCCATAATCTCTGTCTGCTGCTGTTTGCAGGCGTCATTGCTGCTAGAATCGGTCTTTGGT  
CCTTTGATTAACTGTGACACAGTTGCTGCAAGAAAATGTAATTGAATCTGAAAGAGGCATTATAAATGGTGTAC  
AGAACTCCATGAAGTATCTTCTTGATCTTCTGCATTTTCATCATGGTCATCCTGGCTCCAAATCCTGAAGCTTTTG  
GCTTGCTCGTATTGATTTCACTCTCCTTTGTGGCAATGGGCCACATTATGTATTTCCGATTTGCCCAAAATCTC  
TGGGAAACAAGCTCTTTGCTTGCGGTCTGATGCAAAAGAAGTTAGGAAGGAAAATCAAGCAAATACATCTGTTG  
TTTGAAGACAGTTTAACTGTTGCTATCCTGTTACTAGATTATATAGAGCACATGTGCTTATTTTGTACTGCAGAAT  
TCCAATAAATGGCTGGGTGTTTTGCTCTGTTTTTACCACAGCTGTGCCCTGAGAATAAAGCTGTTTAGGAAAC  
CTAAGTCAGCAGAAATTAAGTATTAATTTCCCTTATGTTGAGGCATGGAAAAAAATTTGAAAAAGAAAACTCA  
GTTTAAATACGGAGACTATAATGATAACACTGAATTTCCCTATTTCTCATGAGTAGATACAATCTTACGTAAAG  
AGTGGTTAGTCACGTGAATTCAGTTATCATTTGACAGATTCTTATCTGTACTAGAATTCAGATATGTCAGTTTTT  
TGCAAACTCACTCTTGTTCAGACTAGCTAATTTATTTTTTGCATCTTAGTTATTTTAAAAACAAATTTCTC  
AAGTATGAAGACTAAATTTTGATACTAATATTATCCTTATTGATCCTATTGATCTTAAGGTATTTACATGTATG  
TGGAAAAACAAACACTTAAGTAGAATCTCTAATAAGGTTTATGGTTTAGCTTAAAGAGCACCTTTGTATTTT  
ATTATCAGATGGGGCAACATATTGTATGAAGCATATGTAGCACTTACAGCATGGTTATCATGTAAGCTGCAGGT  
AGAAGCAAAGCTGTAAAGTAGATTTATCACACAATGACTGCATACAGACTTCAAATATGTCAATAGTTTGGTCAT  
AGAACCTAGAAGCCAAAAGCCACACAGAAGGGCAAGAATCCCAATTTAACTCATGTTATCATCATTAGTGATCTG  
TGTGTAGAACATGAGGGTGTAAAGCCTTCAGCCTGGCAAGTTACATGTAGAAAGCCACACTTGTGAAGGTTTTG  
TTTTACAAATCACTTGATTTAACACACTCAGGTAGAATATTTTATTTTACTGTTTTATACCCAGAAGTTATTT  
CTACATTGTTCTACAGCAAGAATATTCATAAAAGTATCCCTTTCAAATGCCCTTGAGAAGAATAGAAGAAAAAA  
GTTTGTATATATTTTAAAAAATTGTTTTAAAAGTCAGTTTGCAACATGTCTGTACCAAGATGGTACTTTGCCTTA  
ACCGTTTATATGCACTTTTCATGGAGACTGCAATACGTTGCTATGAGCACTTTCTTTATCCTTGGAGTTTAACTCT  
TTGCTTCATCTTTCTACAGTATGACATAATGCTATGTTGTAAATCTTTGTAAAAAATTTCTATATAAAA  
ATATTTTGAAGTCTTAAAAAATAAAAAA

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**FIGURE 924**

MTRAGDHNRRQGCCGSLADYLTSAKFLLYLGHSLSTWGDRMWHFAVSVFLVELYGNLLLLTAVYGLVVAGSVLVL  
GAIIGDWVDKNARLKVAQTSLVVQNVSVILCGIILMMVFLHKHELLTMYHGWLTSCYILIITIANIANLASTAT  
AITIQRDWIVVVAGEDRSKLANMNATIRRIDQLTNILAPMAVGQIMTFGSPVIGCGFISGWNLVSMCVEYVLLWK  
VYQKTPALAVKAGLKEEETELKQLNLHKDTEPKPLEGTHLMGVKDSNIHELEHEQEPTCASQMAEPFRTRDGVV  
SYYNQPVFLAGMGLAFLYMTVLGFDCITTGYAYTQGLSGSILSILMGASAITGIMGTVAFWLRRCGLVRTGLI  
SGLAQLSCLILCVISVFMGPSPLDLSVSPFEDIRSRFIQGESITPTKIPETITEIYMSNGSNSANIVPETSPEV  
PIISVSLLFAGVIAARIGLWSFDLTVTQLLQENVIESERGIINGVQNSMNYLLDLLHFIMVILAPNPEAFGLLV  
ISVSFVAMGHIMYFRFAQNTLGKLFACGPDAKEVRKENQANTSVV

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**FIGURE 925**

TTTTGTGAAGAGACGAAGACTGAGCGGTTGCGGCCGCGTTGCCGACCTCCAGCAGCAGTCGGCTTCTCTACGCAG  
AACCCGGGAGTAGGAGACTCAGAATCGAATCTCTCTCCCTCCCCTTCTTGTTTTCGGCTTTGTGAGAAACCTTA  
CCATCAAAACACAATGGCCAGCAACGTTACCAACAAGACAGATCCTCGTTCCATGAACTCCCGTGTATTTCATTGGG  
AATCTCAACACTCTTGTTGGTCAAGAAATCTGATGTGGAGGCAATCTTTTCGAAGTATGGCAAAATTGTGGGCTGC  
TCTGTTTCATAAGGGCTTTGCCTTCTTTTCAGTATGTTAATGAGAGAAATGCCCGGGCTGCTGTAGCAGGAGAGGAT  
GGCAGAATGATTGCTGGCCAGGTTTTAGATATTAACCTGGCTGCAGAGCCAAAAGTGAACCGAGGAAAAGCAGGT  
GTGAAACGATCTGCAGCGGAGATGTACGGCTCCTCTTTGACTTGGATTGTGACTTCAACGGGACTATTATGAT  
AGGATGTACAGTTACCCAGCACGTGTACCTCCTCCTCCTATTGCTCGGGCTGTAGTGCCTCGAAACGTCAG  
CGTGTATCAGGAAACACTTCACAAAGGGGCATAAGTGGCTTCAATTCTAAGAGTGGACAGCGGGGATCTTCCAAG  
TCTGGAAAGTTGAAAGGAGATGACCTTCAGGCCATTAAGAGGGAGCTGACCCAGATAAAAACAAAAGTGGATTCT  
TTCCTGGAAAACCTGGAAAAAATTGAAAAGGAACAGAGCAAACAAGCAGTAGAGATGAACAATGTTAAGTCAGAA  
GAGGAGCAGAGCAGCAGCTCCGTGAAGAAAGATGAGACTAATGTGAAGATGGAGTCTGAGGGGGGTGCAGATGAC  
TCTGCTGAGGAGGGGGACCTACTGGATGATGATGATAATGAAGATGGGGGGATGACCAGCTGGAGTTGATCAAGG  
ATGATGAAAAAGAGGCTGAGGAAGGAGAGGATGACAGAGACAGCGCCAATGGCGAGGATGACTCTTAAGCACATA  
GTGGGGTTTTAGAAATCTTATCCATTATTTCTTTACCTAGGCGCTTGCTCTAAGATCAAATTTTTTACCAGATCCT  
CTCCCCTAGTATCTTCAGCACATGCTCACIGTTTTCCCCATCCTTGCTCCTTCCCATGTTTCAATTAATTATTCATA  
TTGCCCCGCGCCTAGTCCCATTTTCACTTCCTTTGACGCTCCTAGTAGTTTTGTAAAGTCTTACCCTGTAATTTT  
TGCTTTTAAATTTTGATACCTCTTTATGACTTAACAATAAAATGATGTATGGTTTTTATCAACTGTCTCCAAAAT  
AATCTCTTGTATGCAGGGAGTACAGTTCTTTTCATTACATACATAAGTTCAGTAGTTGCTTCCCTAACTGCAAAG  
GCAATCTCATTTAGTTGAGTAGCTCTTGAAAGCAGCTTTGAGTTAGAAGTATGTGTGTTACACCCCCACATTAGT  
GTGCTGTGTGGGGCAGTTCAACACAAATGTAACAATGTATTTTTGTGAATGAGAGTTGGCATGTCAAATGCATCC  
TCTAGAAAAATAATTAGTGTTATAGTCTTAAGATTTGTTTTCTAAAGTTGATACTGTGGGTATTTTTGTGAACA  
GCCTGATGTTTGGGACCTTTTTTCTCAAAATAACAAGTCCTTATTAAACCAGG



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**FIGURE 926**

GCCGACCTCCAGCAGCAGTCGGCTTCTCTACGCAGAACCCGGGAGTAGGAGACTCAGAATCGAATCTCTTCTCCC  
TCCCCTTCTTGTTTTTCGGCTTTGTGAGAAACCTTACCATCAAACACAATGGCCAGCAACGTTACCAACAAGACAG  
ATCCTCGTTCCATGAACTCCCGTGTATTCAATTGGGAATCTCAACACTCTTGTGGTCAAGAAATCTGATGTGGAGG  
CAATCTTTTCGAAGTATGGCAAAATGTGGGCTGCTCTGTTTATAAGGGCTTTGCCTTCTTTCAGTATGTTAATG  
AGAGAAATGCCCCGGGCTGCTGTAGCAGGAGAGGATGGCAGAATGATTGCTGGCCAGGTTTTAGATATTAACCTGG  
CTGCAGAGCCAAAAGTGAACCGAGGAAAAGCAGGTGTGAAACGATCTGCAGCGGAGATGACCTTCAGGCCATTAA  
GAGGGAGCTGACCCAGATAAAACAAAAGTGGATTCTTTCTGGAAAACCTGGAAAAAATTGAAAAGGAACAGAG  
CAAACAAGCAGTAGAGATGAACAATGTTAAGTCAGAAGAGGAGCAGAGCAGCAGCTCCGTGAAGAAAGATGAGAC  
TAATGTGAAGATGGAGTCTGAGGGGGGTGCAGATGACTCTGCTGAGGAGGGGGACCTACTGGATGATGATGATAA  
TGAAGATGGGGGGATGACCAGCTGGAGTTGATCAAGGATGAGGATGACTCTTAAGCACATAGTGGGGTTTAGAAA  
TCTTATCCCATTTATTTCTTTACCTAGGCGCTTGTCTAAGATCAAATTTTTACACAGATCCTCTCCCCTAGTATCT  
TCAGCACATGCTCAGTGTTCCTTCCCATCCTTGTCTTCCCATGTTTCAATTAATTAATTCATATTGCCCCGCGCCTA  
GTCCCATTTTCACTTCCTTTGACGCTCCTAGTAGTTTTGTAAAGT

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**FIGURE 927**

GAGACGAAGACTGAGCGGTTGCGGCCGCGTTGCCGACCTCCCTTCTTGTTTTCGGCCTTGTGAGAAACCTTACC  
ATCAAACACAATGGCCAGCAACGTTACCAACAAGACAGATCCTCGTTCCATGAACTCCCGTGATTTCATTGGGAA  
TCTCAACACTCTTGTTGGTCAAGAAATCTGATGTGGAGGCAATCTTTTCGAAGTATGGCAAAATTGTGGGCTGCTC  
TGTTTCATAAGGGCTTTGCCTTCTTTCAGTATGTTAATGAGAGAAATGCCCCGGGCTGCTGTAGCAGGAGAGGATGG  
CAGAATGATTGCTGGCCAGGTTTTAGATATTAACCTGGCTGCAGAGCCAAAAGTGAACCGAGGAAAAGCAGGTGT  
GAAACGATCTGCAGCGGAGATGTACGGCTCCTCTTTTGAAGTTGGATTGTGACTTTCAACGGGACTATTATGATAG  
GATGTACAGTTACCCAGCACGTGTACCTCCTCCTCCTCTATTGCTCGGGCTGTAGTGCCCTCGAAACGTCAGCG  
TGTATCAGGAAACACTTCACAAAGGGGCATAAGTGGCTTCAATTCTAAGAGTGGACAGCGGGGATCTTCCAAGTC  
TGGAAGTTGAAAGGAGATGACCTTCAGGCCATTAAGAGGGAGCTGACCCAGATAAAACAAAAAGTGGATTCTTT  
CCTGGAAAACCTGGA AAAAATTGAAAAGGAACAGAGCAAACAAGCACTGGAGTTGATCAAGGATGATGAAAAAGA  
GGCTGAGGAAGGAGAGGATGACAGAGACAGCGCCAATGGCGAGGATGACTCTTAAGCACATAGTGGGGTTTAGAA  
ATCTTATCCCATTTATTTCTTTACCTAGGCGCTTGCTAAGATCAAATTTTTCACCAGATCCTCTCCCCTAGTATC  
TTCAGCACATGCTCACTGTTTTCCCATCCTTGTCCTTCCCATGTTTCATTAAATTCATATTGCCCCGCGCCT  
AGTCCCATTTTCACTTCCTTTGACGCTCCTAGTAGTTTT

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**FIGURE 928**

ATCTTTTAGAGAAATCTCGGGTTGTTAAACAGCCAAGAGGTGAAAGAACTTCCATGTGTTCTATCAGCTGCTCT  
CTGGTGCCTCTGAAGAGCTCCTCAATAAACTTAAGCTTGAGAGGGATTTCAGCAGGTATAACTACCTGAGTCTGG  
ATTTCGGCCAAAGTGAATGGAGTGGATGATGCAGCAAATTTTAGAACCGTGCAGGAATGCCATGCAGATTGTGGGCT  
TTATGGATCATGAAGCTGAGTCTGTCTTGGCGGTGGTGGCAGCAGTGTGAACTGGGGAAACATTGAGTTCAAGC  
CCGAATCTCGAGTGAATGGTCTAGATGAAAGCAAATCAAAGATAAAAAATGAGTTAAAAGAAATTTGTGAATTGA  
CCGCAATTGATCAATCAGTTCTAGAACGAGCATTTCAGTTTCCGAACAGTTGAGGCCAAACAGGAGAAAGTTTCAA  
CTACACTGAATGTGGCTCAGGCTTATTATGCCCCGTGATGCTCTGGCTAAAAACCTCTACAGCAGGTTGTTTTCAT  
GGTTGGTAAATCGAATCAATGAAAGCATTAAAGGCACAAACAAAAGTGAGAAAGAAGTTCATGGGTGTTCTGGACA  
TTTATGGCTTTGAGATTTTCGAGGACAACAGCTTTGAGCAGTTTATTATTAATTATTGTACGAAAAGCTGCAAC  
AAATCTTCATTGAACTTACTCTTAAAGAAGAGCAGGAGGAGTATATACGGGAGGATATAGAATGGACTCACATTG  
ACTACTTCAATAATGCTATCATTTGTGACCTAATAGAAAATAACACAAATGGAATCCTGGCCATGCTGGATGAAG  
AGTGCCCTCAGACCTGGCACAGTCACTGATGAGACCTTCTTAGAAAAGCTGAACCAAGTATGTGCCACCCACCAGC  
ATTTTGAGAGCAGGATGAGCAAGTGCTCTCGGTTCTCTCAATGACACGCTCTGCTGCCTCACAGCTGCTTCAGGATCC  
AGCATTATGCTGGAAGGTGCTGTACCAGGTGGAAGGATTTCGTTGACAAAAACAATGACCTTCTCTATCGAGACC  
TGTCCTCAAGCCATGTGGAAGGCCAGCCATGCCCTCATCAAGTCTTTGTTCCCCGAAGGGAATCCCGCCAAGATCA  
ACCTGAAAAGGCCTCCTACAGCAGGCTCACAGTTCAAGGCATCCGTGGCCACTCTGATGAAAACCTACAGACCA  
AGAACCCAAACTATATTAGGTGTATCAAACCGAATGATAAAAAAGCAGCACACATCTTCAACGAGGCTCTAGTGT  
GTCATCAGATCAGGTACCTGGGGCTTTTGGAGAACGTCCGAGTGCGGAGGGCAGGCTACGCCTTCAGGCAGGCCCT  
ATGAACCTTGCTAGAAAAGATACAAAATGCTTTGTAAACAAACATGGCCTCATTTGGAAGGACCAGCCAGGTCTG  
GTGTGGAGGTCTATTGAATTAGAAATTCCTGTTGGAAGAATACTCCTTTGGTAGATCAAAGATATTTCATCC  
GAAACCCAAGAACATTATTCAAATTAGAAGACCTGAGGAAGCAACGCCTGGAGGACTTGGCCACTCTCATTGAGA  
AGATATATCGGGGTGGAAATGCCGCACACACTTCTGCTAATGAAAAAAGCCAAATTGTGATTGCCGCCTGGT  
ACAGGAGATATGCGCAACAAAAGAGGTACCAGCAGACAAAGAGTTCGCGCTTAGTAATTCAGTCTTATATCCGGG  
GTTGGAAGGCTCGAAAAATCTGCGGGAACCTGAAGCATCAAAAGCGCTGTAAGGAAGCAGTCACGACCATTGCTG  
CATATTGGCATGGGACCCAGGCTCGAAGGGAATTGAAACGCTTGAAGGAGGAGGCTAGGCGTAAGCATGCAGTTG  
CTGTCATTTGGGCTTACTGGCTTGGACTGAAGGTACGTAGAGAATACAGGAAATCTTCAGAGCCAATGCTGGAA  
AGAAAATCTATGAGTTTACGCTTCAGAGAATTGTGCAAAAATACTTCTTGGAAATGAAAAATAAGATGCCTTCCT  
TATCTCCAATAGACAAGAATTGGCCCTCAAGACCTTACTTATTCTTGGATTCTACTCACAAGGAGCTAAAAAGGA  
TTTTCCACTTGTGGAGGTGTA AAAAATACAGGGACCAATTCACAGACCAGCAGAACTTATTTATGAAGAGAAAC  
TAGAAGCCAGTGAACCTTCAAAGACAAGAAGGCTTTATACCCATCTAGTGTGGGCAACCATTCCAAGGGGCTT  
ACCTGGAAATCAACAAGAACCCCAAGTATAAGAACTCAAAGATGCCATTGAAGAAAAGATCATATTGCTGAAG  
TCGTGAACAAAATTAACCGTGCTAATGGGAAGAGTACATCTCGGATTTTCTCTTAACAAACAATAATCTCCTTC  
TTGCTGACCAAAAGTCTGGACAAATCAAGTCAGAGGTTCCATTGGTGGATGTGACCAAGGTATCAATGAGCTCAC  
AAAATGATGGCTTCTTCGCGCTCCACCTCAAAGAGGGCTCAGAAGCAGCTAGTAAAGGAGACTTCTCTTCAGCA  
GTGATCACCTGATTGAAATGGCCACCAAGCTCTATCGCACAACTCTCAGCCAAACCAACAGAAAGCTCAATATTG  
AGATTTCCGATGAGTTCCTGGTACAGTTTACAGCAGGACAAAGTATGTGTGAAGTTTATTAGGAACCTGTAGTAT  
GATATTTAACAATATAGGCTTCAAGAAGGGCTGCTCCTAAGAGGGGCGAGAAATGAATGACCAGGTTAAATCCCT  
CTACATGTGGTTTCTGTTTG

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**FIGURE 929**

AGGTCAGAAATGTGAATTCCAGGATGCCTATGTTCTGTTGAGTGAAAAGAAAATTTCTAGTATCCAGTCCATTGT  
ACCTGCTCTTGAAATTGCCAATGCTCACCGTAAGCCTTTGGTCATAATCGCTGAAGATGTTGATGGAGAAGCTCT  
AAGTACACTCGTCTTGAATAGGCTAAAGGTTGGTCTTCAGGTTGTGGCAGTCAAGGCTCCAGGGTTTGGTGACAA  
TAGAAAGAACCAGCTTAAAGATATGGCTATTGCTACTGGTGGTGCAGTGTTTGGAGAAGAGGGATTGACCCTGAA  
TCTTGAAGACGTTTCAGCCTCATGACTTAGGAAAAGTTGGAGAGGTCATTGTGACCAAAGACGATGCCATGCTCTT  
AAAAGGAAAAGGTGACAAGGCTCAAATTGAAAACGTATTCAAGAAATCATTGAGCAGTTAGATGTCACAACTAG  
TGAATATGAAAGGAAAACTGAATGAACGGCTTGCAAACTTTTCAGATGGAGTGGCTGTGCTGAAGGTTGGTGG  
GACAAGTGATGTTGAAGTGAATGAAAAGAAAGACAGAGTTACAGATGCCCTTAATGCTACAAGAGCTGCTGTTGA  
AGAAGGCATTGTTTTGGGAGGGGGTTGTGCCCTCCTTCGATGCATTCCAGCCTTGGACTCATTGACTCCAGCTAA  
TGAAGATCAAAAAATTGGTATAGAAATTATTAAAAGAACTCAAAATTCAGCAATGACCATTGCTAAGAATGC  
AGGTGTTGAAGGATCTTTGATAGTTGAGAAAATTATGCAAAGTTCCTCAGAAAGTTGGTTATGATGCTATGGCTGG  
AGATTTTGTGAATATGGTGGAAAAAGGAATCATTGACCCAACAAAGGTTGTGAGAACTGCTTTATTGGATGCTGC  
TGGTGTGGCCTCTCTGTAACTACAGCAGAAGTTGTAGTCACAGAAATTCCTAAAGAAGAGAAGGACCCTGGAAT  
GGGTGCAATGGGTGGAATGGGAGGTGGTATGGGAGGTGGCATGTTCTAACTCCTAGACTAGTGCTTTACCTTTAT  
TAATGAACTGTGACAGGAAGCCCAAGGCAGTGTTCCCTACCAATAACTTCAGAGAAGTCAGTTGGAGAAAATGAA  
GAAAAAGGCTGGCTGAAAATCACTATAACCATCAGTTACTGGTTTCAGTTGACAAAATATATAATGGTTTACTGC  
TGTCATTGTCCATGCCTACAGATAATTTATTTTGTATTTTGAATAAAAAACATTTGTACATTCCCTGATACTGGG  
TACAAGAGCCATGTACCAAGTGTACTGCTTTCAACTTAAATCACTGAGGCATTTTACTACTATTCTGTAAAAATC  
AGGATTTTAGTGCTTGCCACCACCAGATGAGAAGTTAAGCAGCCTTTCTGTGGAGAGTGAGAATAATTGTGTACA  
AAGTAGAGAAGTATCCAATTATGTGACAACCTTTGTGTAATAAAAAATTTGTTTAA

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**FIGURE 930**

GCTACACTAGAGCAGAGTACGAGTCTGAGGCGGAGGGAGTAATGGCAGGACAAGCGTTTAGAAAGTTTCTTCCAC  
TCTTTGACCGAGTATTGGTTGAAAGGAGTGCTGCTGAAACTGTAAACCAAAGGAGGCATTATGCTTCCAGAAAAAT  
CTCAAGGAAAAGTATTGCAAGCAACAGTAGTCGCTGTTGGATCGGGTTCTAAAGGAAAGGGTGGAGAGATTCAAC  
CAGTTAGCGTGAAAGTTGGAGATAAAGTTCTTCTCCAGAATATGGAGGCACCAAAGTAGTTCTAGATGACAAGG  
ATTATTTCCCTATTAGAGATGGTGACATTCTTGGAAGTACGTAGACTGAAATAAGTCACTATTGAAATGGCATC  
AACATGATGCTGCCCATCCACTGAAGTTCTGAAATCTTTCGTCATGTAAATAATTCCATATTTCTCTTTATA  
ATAAACTAATGATACTAATGACATCCAGTGTCTCCAAAATTGTTTCCTTGTAAGTATATAAACTTCCAAATA  
AAAAATATGTAAAT

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**FIGURE 931**

MAGQAFRKFLPLFDRVLVERSAAETVTKGGIMLPEKSQGKVLQATVVAVGSGSKGKGGEIQPVSVKVGDKVLLPE  
YGGTKVVLDDKDYFLFRDGDILGKYVD

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**FIGURE 932**

GATTTGACCCTTGAGCCGTAGGGAGCGCGGCATTTTCTGGAAAGTTCTGGAACCGAGCGAGGCCCGGGAAC TAGA  
CTAAGCCGGCCGGAGAGGGCTGAGCGCGCTAGCACACCCTGCGCGGAAATGCTTCGGTTACCCACAGTCTTTGCGC  
CAGATGAGACCGGTGTCCAGGGTACTGGCTCCTCATCTCACTCGGGCTTATGCCAAAGATGTAAATTTGGTGCA  
GATGCCCCGAGCCTTAATGCTTCAAGGTGTAGACCTTTTAGCCGATGCTGTGGCCGTTACAATGGGGCCAAAGGGA  
AGAACAGTGATTATTGAGCAGAGTTGGGGAAGTCCCAAAGTAACAAAAGATGGTGTGACTGTTGCAAAGTCAATT  
GACTTAAAAGATAAATACAAAACATTGGAGCTAAACTTGTTCAAGATGTTGCCAATAACACAAATGAAGAAGCT  
GGGGATGGCACTACCACTGCTACTGTACTGGCACGCTCTATAGCCAAGGAAGGCTTCGAGAAGATTAGCAAAGGT  
GCTAATCCAGTGGAATCAGGAGAGGTAGGAATGTCTGTTGTCACCACAGTGTTCTAAACTTCAGTGTGCTTTAA  
GGCATTGATTCTTGGACCTAAGGAAAGTGTTAACTTGAGGAAATTAATCCTTCTCTCATTCTCTCTTGGCCT  
GGAGAAATCTTAAACTGGGTTTTCTTTAGCAAGCTTGGCTGT

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**FIGURE 933**

TGGAAAGAGTGGAAACGAGAAAAACCTTTTCAGACTATTGTGTTCTGGGCCAGCGTCCAATGCATTACCAAATATGA  
ACCAGCTGGCATCCCTGGGGAAAACCAACGAACAGTCTCCTCAGAGCCAAATTCACCACAGTACTCCAATCCGAA  
ACCAAGTGCCCGCATTACAGCCCATCATGAGCCCTGGTCTTCTTTCTCCCAGCTTAGTCCACAACCTTGTAAGGC  
AACAAATAGCCATGGCCCATCTGATAAACCAACAGATTGCCGTTAGCCGGCTCCTGGCTCACCAGCATCCTCAAG  
CCATCAACCAGCAGTTCCTGAACCATCCACCCATCCCAGAGCAGTTAAGCCAGAGCCAACCAACTCTTCCGTGG  
AAGTCTCTCCAGATATCTACCAGCAAGTCAGAGATGAGCTGAAGAGGGCCAGTGTGTCCCAAGCTGTCTTTGCAA  
GAGTGGCATTCAACCGCACACAGGTACAATTAGCATTAAACACTGTAATTAACAGTAATACTGGGGACAGAATTG  
AGATAGGTTATAATTATTTTATCTCTTTAAAAAGCTTTATGGATCTCAGGACATAGAATTAGATTAATTAATA  
TCCTTAGTTAATGAAACGCTATTACCATTGATCCATGCATGACCATGATTAATTAATACTAATTGATTAATTTGAT  
GAGGTAATGGACATCTTTGAACCCAACATGCAACTCAGGACCCCAATGTTACTAATGACTTGGGTATGTACTCT  
CTCATCTCTCCATTTACTGTTTGCAGATGTAACCTGATCTTGAATTTTGTGATTATCAGTCTCTTGCCATTTT  
TTAAAACAAATTATAAACTATGCATGCCAGACAATCTATTTTTTCCCTTGGTTTTGAACGTTATAAAAGAAA  
TAAATTTATGTTTTATAATTTTATAAGTAAAGTTTTATTTAAAAATTTATAAAAATCCCTTCAAAACATAAAAGTT  
AGATTTAAGATATTGATAAAATGATAATGGATAGTTTACITTTATTTTTAATGTTTGAGAGAATTATATGCCAAT  
TATAACACTAAATGTTGAAAATGTAAACAGTTAATTCACACGCTCTATTTTTATTGAGGGTGCTTATATGTAAGA  
CATTCTTTTCTGCTAGTAGTTCTTAAACTGGAGTGTGCATCAGAATCACCTGGAGGGCTGTGAAACACAGACTGC  
TGGGCCTCATCCCATAGTTTCTGATTGAGTAAGTCTGAGGTTGGACTCAGAAATGGACATTTCTAACAAGATCCC  
AGGTGATTATGATGGTACTGATCCGGGGCCGCATGTTGAGAAAACTTACCTAGCCCTTATATGAGTAAGAACA  
AGCAGATGTGCATAATCTCGGGGAGCTAACGATCTAGTGGTGAAGAACAGGTAACCAGATAATTAGAGTAAATG  
TGAAGTGTATGAGTAATGTTGGAGAGTGTAAAGCAATAGTTGTTGGTGGAGGTTTCATGGTGAGCTGGAGGTGAGGA  
ATACTTCCAGGAGAATGAATATGGTAAGCCTTCAAGAAAACAGTAGATTAAAATTTACGACCCCTCGTAAATGCA  
AGGCAGGAAGCTAAGCTCTATGTGGGTGCAAAGAGGAAAAAGATAATGGGCAAGCACATATGTAAACAACACTCT  
AGAGTATTAGGTTGTCAATGGGTTAGACCTTGAAGGATTAATAAGTACAGCAGGCAAGATGATGAAGAAGAAG  
ATTATTATTTTAAGGTAAAGACATTCATAGGAAAGATGTTGAGTTAAAAATGCAGGAATAATTTGAAGACATAA  
AACAACTGATTTCTGAGAAAAACCTGTGAACGTACAGAATGTAGGAATGCTTTTATTATCTGATACCTGTTCA  
GAGACACATGATAACACACGCTGTAGATGGACCTTACAAATGAAAGAAAGCATGCTGGATTGAAACCTCAATAAT  
TTGGAATAACAGGAATGTTTCCAAATTTAATGATTACTTCAGAAGTTAAGGGGCTGGGCACAGTGGCTCATGTC  
TGTAAGTCTAGCACTTTGGGAGGCCAAGGTGGGCGGATCACTTGAGGTGAGGAGTTCAAGACCAGCTGGGCAAG  
ATGGTAAACACCATCTCTACTAAAACAGAACAAAAACAAAAAATTAGCTGGGCGTGGTGATGCGTGCCCTGTAGT  
CTCAGCTACTCAGGAGGCTGAGGCAGAGAATCCCTTGAACCCAGGAGGCGGAGGCTGCAGTGAGCCGAGATCAT  
GCCACTGCACTCCAGCCTGAGTGAGAGTGAACTCCATCTCAAAAAAAAAAAAAAAAAA



[illegible]

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**FIGURE 935**

MNNQKQKPTLSGQRFKTRKRDEKERFDPTQFQDCIIQGLTETGTDLEAVAKFLDASGAKLDYRRYAETLFDILV  
AGGMLAPGGTLADDMMRDVCVFVAAQEDLETMQAFAQVFNKLIRRYKYLEKGFEDVKKLLFLKGFSESERNKL  
AMLTGVLLANGTLNASILNSLYNENLVKEGVSAFAVKLFKSWINEKDINAVAASLRKVSMDNRLMELFPANKQS  
VEHFTKYFTEAGLKELSEYVRNQQTIGARKELQKELQEQMSRGDPFKDIILYVKEEMKKNNIPEPVVIGIVWSSV  
MSTVEWNKKEELVAEQAIKHLKQYSPLLAFTTQGQSELTILLKIQEYCYDNIHFMKAFQKIVVLFYKAEVLSEE  
PILKWYKDAHVAKGKSVFLEQMKKFVEWLKNAEESESEAEEGD

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**FIGURE 936**

ACGCAGAGAAGTTTCCGGGACTGAAACTTGAACCTTACCTGATTTCTGTATGTTGTTCATCTTGCGTACGCCCAGT  
CCCCACGACAGTCCGGTTTGTAGATTCCCTGATCTGCAATCTTCCCGTTCCTTCATGGATTGAAGGCTCTCCT  
TTCTTCCTTGAATGACTTTGCATCCCTCTCGTTTGCTGAGAGTTGGGACAAATGTTGGATTACTGGTGGAACCAAG  
CCCACCACATACTGTAAATACACTCTTCTGACCAATGACCTGACTGAGGAAGTGATGGAGGAGGTGCTGCAAAA  
GAAGGCAGACCTCATTCTCTCTACCATCCGCCTATCTTCCGACCCATGAAGCGCATAACCTGGAACACATGGAA  
GGAGCGCCTGGTGATCCGGGCTCTGGAGAACAGAGTCGGTATCTACTCTCTCATAACAGCCTATGATGCTGCGCC  
CCAGGGCGTCAACAACCTGGTTGGCTAAAGGGCTTGGAGCTTGACCTCCAGGCCCATAACATCCTTCCAAAGCTCC  
CAACTACCTACAGAGGGAAACCACCGAGTAGAATTCAACGTTAACTACACCCAAGACCTGGACAAAGTCATGTC  
TGCAGTGAAAGGAATTGACGGTGTCTTCTGTCACTTCTTTTTCTGCTAGGACTGGTAATGAGGAACAAACACGGAT  
TAATCTGAATTGTACTCAGAAGGCTTTGATGCAGGTGGTAGATTTTCTTTCCCGGAACAAACAACCTTTATCAGAA  
GACGGAAATTCTGTCACTGGAGAAGCCTTTGCTTCTACATACTGGAATGGGACGGTTATGCACACTGGATGAATC  
TGTCTCCCTGGCAACCATGATTGATCGAATAAAAAGACACCTAAACTATCTCATATTTCGCTTAGCCCTTGGGGT  
GGGGAGAACCTTAGAGTCTCAAGTCAAAGTCGTGGCCCTGTGTGCTGGTTCTGGGAGCAGCGTTCTGCAGGGTGT  
TGAGGCTGACCTTTACCTCACAGGTGAGATGTCCCATCATGATACTTTGGATGCTGCTTCCCAAGGAATAAATGT  
CATCCTCTGTGAACACAGCAACACTGAACGAGGCTTTCTTTCTGACCTTCGAGATATGCTGGATTCTCACTTGA  
GAATAAGATAAATATTATCCTATCAGAGACTGACAGGGACCCCTTTCAGGTGGTATAATTGCAGAAACATCAGGA  
TAACACATTCTACAAATCAGCTGGATGCCAACTTAAATTTGTAACATGAGTCAGTGGGACTGGTGTGCTTCCAGA  
GAGTGTCTTCGAGGGTATCATCATTTCCGGTTTGTAAATCTTATTCACCAAATGTTCTATCGCTCGTAAGGTAAA  
ACTGTAATATAACTACCATATTAAATAACAAATGTTTCATTATAAACTCTAGGAAAGATTGAATAAAATCTGTTTA  
CTTAACATTC

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**FIGURE 937**

MLSSCVRPVPTTVRFVDSLICNSSRSFMDLKALLSSLNDFASLSFAESWDNVGLLVEPSPPHTVNTLFLTNDLTE  
EVMEEVLQKKADLILSYHPPIFRPMKRITWNTWKERLVIRALENRVGIYSPHTAYDAAPQGVNNWLAKGLGACTS  
RPIHPSKAPNYPTTEGNHRVEFNVNYTQDLQVMSAVKGIDGVSVTSFSARTGNEEQTRINLNCTQKALMQVVDL  
SRNKQLYQKTEILSLEKPLLLHTGMGRCLTLDSEVSLATMIDRIKRHLKLSHIRLALGVGRTLESQVKVVALCAG  
SGSSVLQGVEADLYLTGEMSHHDTLDAASQGINVILCEHSNTERGFLSDLRDMLDSHLENKINIILSETDRDPLQ  
VV

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**FIGURE 938**

CTCCTTTCTGCCCCTGGACGCCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCCTGCCGTCATGCTCTAAGTCA  
GAGTCTCCTAAAGAGCCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCGATGAGAGC  
CTGAGGAGCCATTTTGTAGCAACGGGGAACGCTCACAGACTGTGTGGTAATGAGAGATCCAAACACCAAGTGCTCC  
ACGGGCTTTGGGTTTGTACATATGCCACTGTGAAGGAGGTGGAGGCAGCTATGAATGCAAGGCCACAGAAGGTG  
GATGGAAGAGTCGTGGAACCAAGAGAGCTGTCTCGAGAGAAGATTCTCAAAGACCAGGTGCCACTTAACTGTG  
AAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTTGAACAGTATGGA  
AAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGGAAGAAAAGGGGCTTTGCCTTTGTAACCTTTGAT  
GACCATGACTCCGTGGATAAGATTGTCAATCAGAAATACCACACTGTGAATGGCCACAACCTGTGAAGTTAGAAAA  
GCCCTGTCAAAGCAAGAGATGACTAGTGCTTCATCTAGCCAAAGAGGTGGAAGTGGTTCTGGAACTTTGGTGGT  
GGTCGTGGAGGTGGTTTTAGTGGGAATGACAACCTTTGGTCATGGAAGAACTTCAGTGGTCATGGTGGCTTTGGT  
GGCAGCCGTGGTGGTGGTGGATATGATGGCAGTGGGGATGGCTATAATGGATTGGTAATGATGGAAGCCATTTT  
GGAGGTGGTGAAGCTACAATGATTTTGGCAATTACAAAAATCAGTCTTCAAATTTTGGACCCGTGAAGGGAGGA  
AATTTTGGAGGCAGAAGCTCTGGCCCCATATGGCGGTGGAGGCCAATACTTTGCAAACCACGAACTAAGGTGGC  
TATGGCGGTTCCAGCAGTAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAATTAGGAAACAAAGCTTAGCAGGAG  
AGGAGAGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAACAGATTTGTGAACCTAGCCAAGCACAGTGGTGGCA  
GGGCCTAGCTGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAAACTCGAGGACTGTAT  
TTGTGACTAATTGTATAACAGGTTATTTTAGTTTCTGTTCTGTGGAAAGTGTAAGCATTCCAACAAAGGGTTTT  
AATGTAGATTTTTTTTTTGCACCCATGCTGTTGATTGCTAAATGTAATAGTCTGATCGTGACGCTGAATAAATG  
TCTTTTTTTTTTAAATGTGCTGTGTAAAGTTAGTCTACTCTGAAGCCATCTTGGTAAATTTCCCCAACAGTGTGAAG  
TTAGAATTCCTTCAGGGTGATGCCAGGTTCTATTTGGAATTTATATACAACCTGCTTGGGTGGAGAAGCTATTGT  
CTTCGGAACCTTGGTGTAGTTGAACTGATAGTTACTGTTGTGACCTGAAGTTCACCATTAAAAGGGATTACCCA  
AGCAAAATCATGGAATTATTGGTTATAAAAGTGATTGTTGGCACATCCTATGCAATATACTAAATTGAATAATG  
GTACCAGATAAAATTATAGATGGGAATGAAGCTTGTGTATCATCCATTATCATGTGTAATCAATAACGATTTAA  
TTCTCTGGAA

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**FIGURE 939**

MSKSESPKEPEQLRKLF IGGLSFETTDESLRSHFEQRGTLTDCVVMRDPNTKCSTGFGFV TYATVKEVEAAMNAR  
PQKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQYGKIEVIEIMTDRSGGKKRGFAF  
VTFDDHDSVDKIVIQKYHTVNGHNCEVRKALSKQEMTSASSSQRGRSGGNFGGGRGGGFSGNDNFGHGRNFSGH  
GGFGGSRGGGGYDGS GDGYNGFGNDGSHFGGGGSYNDFGNYKNQSSNFGPVKGGNFGGRSSGPYGGGGQYFAKPR  
NRWLWRFQQVAVAMAVAEDF

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**FIGURE 940**

GAGGCGTAGCGGAAGTTACTGCAGCCGCGGTGTTGTGCTGTGGGGAAGGGAGAAGGATTTGTAAACCCCGGAGCG  
AGGTTCTGCTTACCCGAGGCCGCTGCTGTGCGGAGACCCCGGGTGAAGCCACCGTCATCATGTCTGACCAGGAG  
GCAAACCTTCAACTGAGGACTTGGGGGATAAGAAGGAAGGTGAATATATTAACTCAAAGTCATTGGACAGGAT  
AGCAGTGAGATTCACCTCAAAGTGAAATGACAACACATCTCAAGAACTCAAAGAATCATACTGTCAAAGACAG  
GGTGTTCGAATGAATTCACCTCAGGTTTCTCTTTGAGGGTCAGAGAATTGCTGATAATCATACTCCAAAAGAACTG  
GGAATGGAGGAAGAAGATGTGATTGAAGTTTATCAGGAACAAACGGGGGGTCATTCAACAGTTTAGATATTCTTT  
TTATTTTTTTCTTTCCCTCAATCCTTTTTTATTTTTTAAAAATAGTTCTTTTGTAATGTGGTGTTCAAAACGGA  
ATTGTTATTCATTATTGTTTGTTCATTGTGCTGATTTTGGTGATCAAGCCTCAGTCCCCTTCATATTACC

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**FIGURE 941**

ATGTTGGTGCTGTTTGAACGCTCTGTGGGTACGCCATCTTTAAGGTCTAAATGAGAAGAACTTCAAGAGGTT  
GATAGTTTATGGAAAGAATTTGAAACTCCAGAGAAAGCAAACAAAATAGTAAAGCTAAAACATTTTGAGAAATTT  
CAGGATACAGCAGAAGCATTAGCAGCATTACAGCTCTGATGGAGGGCAAAATCAATAAGCAGCTGAAAAAGTT  
CTGAAGAAAATAGTAAAAGAAGCCCATGAACCGCTGGCAGTAGCTGATGCTAAACTAGGAGGGGTCTATAAGGAA  
AAGCTGAATCTCAGTTGTATCCATAGTCCTGTTGTTAATGAACCTTATGAGAGGAATTCGTTTCAAAATGGATGGA  
TTAATCCCTGGGGTAGAACCACGTGAAATGGCAGCTATGTGTCTTGGATTGGCTCACAGCCTGTCTCGATATAGA  
TTGAAGTTTAGCGCTGATAAAGTAGACACAATGATTGTTTCAGGCAATTTCCCTGTTAGATGACTTGGATAAAGAA  
CTAAACAACCTACATTATGCGATGTAGAGAATGGTATGGCTGGCATTTCCTGAATTAGGAAAAATTATTTTCAGAT  
AATTTAACATACTGCAAGTGTTTACAGAAAGTTGGCGATAGGAAGAACTATGCCTCTGCCAAGCTTTCTGAGTTG  
CTGCCAGAAGAAGTTGAAGCAGAAGTGAAAGCAGCTGCAGAGATATCAATGGGAACAGAGGTTTCAGAAGAAGAT  
ATTTGCAATATTCTGCATCTTTGCACCCAGGTGATTGAAATCTCTGAATATCGAACCCAGCTCTATGAATATCTA  
CAAAATCGAATGATGGCCATTGCACCCAATGTTACAGTCATGGTTGGGGAATTAGTTGGAGCACGGCTTATTGCT  
CATGCAGGTTCTCTTTTAAATTTGGCCAAGCATGCAGCTTCTACCGTTTCAGATTCTTGGAGCTGAAAAGGCACTT  
TTCAGAGCCCTCAAATCTAGACGGGATACCCCTAAGTATGGTCTCATTATCATGCTTCACTCGTGGGCCAGACA  
AGTCCCAAACACAAAGGAAAGATTTCTCGAATGCTGGCAGCCAAAACCGTTTTGGCTATCCGTTATGATGCTTTT  
GGTGAGGATTCAAGTTCTGCAATGGGAGTTGAGAACAGAGCCAAATTAGAGGCCAGGTTGAGAACTTTGGAAGAC  
AGAGGGATAAGAAAAATAAGTGGAACAGGAAAAGCATTAGCAAAAACAGAAAAATATGAACACAAAAGTGAAGTG  
AAGACTTACGATCCTTCTGGTGACTCCACACTTCCAACCTGCTCTAAAAAACGCAAAATAGAACAGGTAGATAAA  
GAGGATGAAATTACTGAAAAGAAAGCCAAAAAGCCAAGATTAAAGTTAAAGTTGAAGAAGAGGAAGAAGAAAAA  
GTGGCAGAAGAAGAAGAAACATCTGTGAAGAAGAAGAAGAAAGGGGTAAAAAGAAACACATTAAGGAAGAACCA  
CTTTCTGAGGAAGAACCATGTACCAGCACAGCAATTGCTAGTCCAGAGAAAAAGAAGAAAAAGAAAAAAGAGA  
GAGAACGAGGATTAA



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**FIGURE 942**

GGAGGCCAAGGTGCAACTTTCTTCGGTCGTCCCGAATCCGGGTTTCATCCAACACCAGCCGCCTCCACCATGCCGC  
CGAAGTTCGACGGTGCCACTTCTGCCCTGGCCCCCAAGATCGGCCCCCTGGGTCTGTCTCCAAAAAGGTTGGTG  
ATGACATTGCCAAGGCAACGGGTGACTGGAAGGGCCTGAGGATTACAGTGAAACTGACCATTGAGAACAGACAGG  
CCCAGATTGAGGTGGTGCCTTCTGCCCTCTGCCCTGATCATCAAAGCCCTCAAGGAACCACCAAGAGACAGAAAGA  
AACAGAAAAACATTAAACACAGTGGGAATATCACTTTTGATGAGATCGTCAACATTGTTGACAGATGCGGCACC  
GATCCTTAGCCAGAGAACTCTCTGGAACCATTAAAGAGATCCTGGGGACTGCCCAGTCTGTGGGCTGTAATGTTG  
ATGGCCGCCATCCTCATGACATCATCGATGACATCAACAGTGGTGCTGTGGAATGCCCAGCCAGTTAAGCACAAA  
GGAAATATTTCAATAAAGGATCATTTGACAAC TG

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**FIGURE 943**

MPPKFDGATSALAPKIGPLGLSPKKVGDDIAKATGDWKGLRITVKLTIQNRQAQIEVVPSASALI IKALKEPPRD  
RKKQKNIKHSGNITFDEIVNIVRQMRHRSLARELSGTIKEILGTAQSVGCNVDGRHPHDIIDDINS GAVECPAS

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**FIGURE 944**

ATGGAAGATTGATGGACATGGACATGAGCCTCCTGAGGCCCCAGAACTATCTTTTCGGTTGTGAACTAAAGGCC  
GACAAAGATGATCACTTTAAGGTGGATAATGATGAAAATGAGACCATCAGTTTAGGGGCTGGTGCAAGGGATGAA  
TTGCACATTGTTGAAGCAGAGGCCATGAATGATGAAGGCAGTCCAATTAAAGTCACACTGGCAACTTTGAAAATG  
TCTGTACAGCCAACCTGCTTCCCTTGGGGGCTTTGAAATCACACCACCAGTGGTCTTACAGTTGAAGTGTGGTTCA  
GGGCCAGTGCATATTAGTAGACAGTGCTTAGTAGCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGAGGAG  
GATGTGAACCTCTTAAGCATATCTGGAAGCGGTCTGCCTCTGGAGGTGGTAGCAAGGCGCCAGCTACCGCGCC  
CACTGGTCAGAAGTGTGGCCAGCGTCTATGCAGGCCCTGGGAGCTCAGGGTGGCTTGGGGTCCAGGAGCATGGCC  
GCAGGTATGGCCGGGGTCTGGCAGGAATGGGAGGCATCCAGAACGAGAAGGAGACCATGCAAAGCCTGAATGAC  
CGCCTGGCCTCCTACCTGGACAGAGTGAGGAGCCTGGAGATGGGAACTGGAAGCTGGAGAGCAAAATCTGGGAG  
CACCTGGAGAAGAAGGGACCCAGGTGAGAGCTGGGGCCACTACTTCAAGACCATCGAGGAGGACCTGACTCAG  
ATCTTCACAAGTACTGTGGACAATACCTGCATCATTCTGCAGATCGACAATGCCATCTTGCTGCTGATGACTTT  
AGAGTCAAGTATGAGACAGAGCCGGCCACGTGCCAGTCTGTGGAGAACGACATCCATGGGCTCCACAAGGTCATT  
GATGACACCAGTGTCACTCAGCTGCAGCTAGAGACAGAGATCGAGGCTCTCAAGGAGGAGCTGCTCTTCTGAAG  
AAGAACCACGAAGAGGAAGTAAAAGGCCTACAAGCCAGATTGCCAGCTCTGTTGACCATGGAGGCCTTGAGAT  
CGACCTGGACTGGATGAAAAATCTGGAGGCCAGCTTGAGAACAGCCTGAAGGGGGGGTGGAGGCCTGCTACACC  
CTGCAGATGGAACAACCTCAATGGGATCCTGCTGCACCTGGAGTCAGAGCTGGCACAGACCTGGGCAGAGGGACAG  
GGCCAGGCCCAGGAGTACCAGGCCCTGCCAAACATCAAGCAGCAACTCCACGCAAACCATCCAAAAGACTCCAC  
CTGCCAACAGTGGATGGCAAAGTGGTGTCTGAGACCAATGACACCAAAGTTCTGAGACATTAA

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**FIGURE 945**

MEDLMDMDMSLLRPQNYLFGCELKADKDDHFKVDNDENETISLGAGARDELHIVEAEAMNDEGSPIKVTLATLKM  
SVQPTASLGGFEITPPVVLQLKCGSGPVHISRQCLVAVEEDAEESEDEEEEDVNLLSISGKRSASGGGSKAPSYRA  
HWSEVWPASMQUALGAQGGLGSRSMAGMAGGLAGMGGIQNEKETMQSLNDRLASYLDRVRSLEMGNWKLESKIWE  
HLEKKGPQVRDWGHYFKTIEEDLTQIFTSTVDNTCIIILQIDNAHLAADD FRVKYETEPATCQSVENDIHGLHKVI  
DDTSVTQLQLETEIEALKEELLFLKKNHEEEVKGLQAQIASSVDHGGLGDRPGLDEKSGGQLGEQPEGGVEACYT  
LQMEQLNGILLHLESELAQTWAEQGQQAQEQALPNIKQQLHANHPKDSHLPTVDGKVVSETNDTKVLRH

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**FIGURE 946**

GACAGTTT TAGCAGAACAGCCTCCGCGGCTCCGGGGAGAAGCAATATGTTAAGGATACCTGTAAGAAAGGCCTTAG  
TAGGCCTTTCTAAGTCTCCTAAAGGATGTGTTCTGAACAACCTGCCACAGCAGCAAGCAACTTGATTGAAGTATTTG  
TTGATGGTCAGTCTGTTCATGGTGGAAACCGGGAACGACCGTCTCCAGCTTGTGAGAAGGTTGGCATGCAGATCC  
CTCGATTCTGTTATCATGAAAGGTTGTCTGTTGCTGGAAACTGCAGGATGTGCCTTGTTGAAATTGAGAAAGCCC  
CTAAGGTTGTAGCTGCTTGTGCCATGCCAGTAATGAAGGGTTGGAATATCCTAACAACTCAGAAAAATCCAAAA  
AAGCCAGGGAAGGTGTGATGGAGTTCTTATTAGCAATCACCCATTGGACTGTCCTATTTGTGACCAGGGAGGTG  
AATGTGATCTGCAGGACCAGTCCATGATGTTTGGAAATGATAGGAGCCGATTTTTAGAGGGGAAGCGTGCTGTGG  
AAGACAAGAACATTGGGCCATTGGTAAAGACCATCATGACAAGATGTATACAGTGTACTCGCTGCATCAGGTTTG  
CAAGTGAGATTGCAGGAGTAGATGATTGGGAACAACAGGCAGAGGAAATGATATGCAAGTTGGCACATACATTG  
AAAAGATGTTTCATGTCTGAACGTCTGGGAATATCATTGATATCTGCCCTGTAGGTGCCCTAACCTCTAAGCCCT  
ATGCCTTTACTGCCCGGCTTGGGAAACAAGAAAGACAGAATCCATTGATGTAATGGATGCGGTTGGAAGTAATA  
TTGTGGTTAGCACAAGAACTGGAGAAGTGATGAGGATTTGCCACGTATGCATGAGGACATCAATGAAGAGTGGA  
TCTCTGATAAAACCAGATTTGCCTATGATGGGCTAAAACGTCAAAGACTTACCGAGCCAATGGTCAGAAATGAAA  
AAGGGCTTTTAACTATACTTCTTGGGAGGATGCGCTCTCTCGCGTAGCTGGAATGTTGCAGAGTTTTCAAGGCA  
AAGATGTGGCAGCAATTGCAGGTGGCTTGGTGGATGCTGAAGCCCTGGTAGCTCTCAAAGATTTGCTTAATAGAG  
TGGACTCTGACACCTTATGCACTGAAGAGGTCTTCCCCACTGCAGGAGCTGGCACAGATTTGCGTTCCAATTATC  
TTCTTAATACTACAATTGCTGGTGTGGAAGAGGCAGATGTTGTTCTTCTGTTGGTACAAACCCACGTTTTGAGG  
CACCCTGTTTAAATGCTAGAATTCGAAAGAGCTGGCTGCATAATGACTTAAAAGTGGCCCTTATAGGCAGTCCAG  
TGGACCTCACTTACACATATGACCACCTGGGAGACTCCCCAAAATTCTTCAAGACATTGCTTCGGGAAGCCATC  
CATTAGCCAGGTCTTAAAGGAAGCTAAAAAACCAATGGTGGTTTTAGGCAGTTCTGCACTCCAAAGAAATGATG  
GAGCAGCAATTCTTGCACTGTTTCTAGCATTGCACAAAAGATTCCGGATGACTAGTGGTGTACTGGTGAATTGGA  
AAGTTATGAATATCCTTCATAGGATTGCAAGTCAAGTAGCTGCTTTGGACCTTGGCTATAAGCCTGGGGTGGAA  
CAATTCGGAAGAACCCTCCCAAGGTGCTGTTTCTCTGGGAGCAGATGGAGGTTGTATCACACGACAGGATTTGC  
CAAAGGATTGTTTCATTATTTATCAAGGACATCATGGTGTGTTGGGGCTCCCATAGCTGATGTTATTCTCCAG  
GAGCTGCTTACACAGAGAAGTCTGCTACATATGTCAACACTGAGGGTAGAGCTCAGCAGACTAAGGTAGCAGTGA  
CACCTCCTGGCTTGGCAAGAGAAGACTGGAAAATTATAAGAGCACTCTCTGAGATTGCTGGAATGACTCTTCCAT  
ATGATACTCTGGATCAAGTAAGGAACAGATTGGAAGAAGTCTCTCCTAATCTTGTTGATATGATGATATTGAAG  
GGGCTAATTACTTCCAGCAAGCAATGAGCTCTCAAAGCTAGTGAACCAGCAGCTTCTTGCTGACCCACTTGTTT  
CACCTCAGCTAACTATAAAAGACTTCTACATGACAGATTCAATTAGCAGAGCCTCACAGACAATGGCCAAATGTG  
TCAAAGCTGTACAGAGGGTGCCAGGCAGTAGAGGAACCATCCATATGCTGAAGCTTCTACTAGGATCCCAGTT  
TTGCCGCGAGATAATTAATGGACAACGTAGTGAGTATCCTTTACAGGTTTATTTCTTTGTAAAAAAAATAAT  
AATAATTTGAATCATGTAATATTTAAGGTTTAACTATGCCTATTTGAAAATGATATTAGTTATCACTTTGCAGT  
TTGAAAAACATGTATTGTGTAAAGGTTAAATAACAAACTATGCAGATGCTCTTAAAGCATTGATAACCTTT  
GTGACGAACATAAAGAGATCCTTAAAT

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**FIGURE 947**

MLRIPVRKALVGLSKSPKGCVRRTATAASNLIIEVFVDGQSVMEPGTTVLQACEKVGMQIPRFCYHERLSVAGNC  
RMCLVEIEKAPKVVAACAMPVMKGWNILTNSEKSKKAREGVMEFLLANHPLDCPICDQGGECDLQDQSMFNGNR  
SRFLEGKRAVEDKNIGPLVKTIMTRCIQCTRCIRFASEIAGVDDL GTTGRGNDMQVGTYYIEKMFMSSELGNIIDI  
CPVGALTSKPYAFTARPWETRKTESIDVMDAVGSNIVVSTRTGEVMRILPRMHEDINEEWISDKTRFAYDGLKRQ  
RLTEPMVRNEKGLLTYTSWEDALSRVAGMLQSFQGKDVA AIAGGLVDAEALVALKDLLNRVDSDTLCTEEVFPTA  
GAGTDLRSNYLLNTTIAGVEEADVLLVGTNPRFEAPLFNARIRKSWLHNDLKVALIGSPVDLTYTYDHLGDSPK  
ILQDIASGSHPFSSQVLKEAKKPMVVLGSSALQRNDGAAILAAVSSIAQKIRMTSGVTGDWKVMNILHRIASQVAA  
LDLGYKPGVEAIRKNPPKVLFLLGADGGCITRQDLPKDCFIIYQGHGHDVGAPIADVILPGAAYTEKSATYVNT  
GRAQOTKVAVTPPGLAREDWKIIRALSEIAGMTLPYDTLDQVRNRLEEVSPNLVRYDDIEGANYFQQANELSKLV  
NQQLLADPLVPPQLTIKDFYMTDSISRASQTMACVKAVTEGAQAVEEPSIC

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**FIGURE 948**

GCCTCGAGGCGGGCGTCTTCGGTCATCTCCGGCGCTTCTAGGGCTGGTTCCCGTCATCTTCGGGAGCCGTGGAGC  
TCTCGGATACAGCCGACACCATGGGTTTCGGAGACCTGAAAAGCCCTGCCGGCCTCCAGGTGCTCAACGATTACC  
TGGCGGACAAGAGCTACATCGAGGGGTATGTGCCATCACAAGCAGATGTGGCAGTATTTGAAGCCGTGTCCAGCC  
CACCGCCTGCCGACTTGTGTCATGCCCTACGTTGGTATAATCACATCAAGTCTTACGAAAAGGAAAAGGCCAGCC  
TGCCAGGAGTGAAGAAAGCTTTGGGCAAATATGGTCCTGCCGATGTGGAAGACACTACAGGAAGTGGAGCTACAG  
ATAGTAAAGATGATGATGACATTGACCTCTTTGGATCTGATGATGAGGAGGAAAGTGAAGAAGCAAAGAGGCTAA  
GGGAAGAACGTCCTTGACAAATATGAATCAAAGAAAGCCAAAAACCTGCACTTGTTGCCAAGTCTTCCATCTTAC  
TAGATGTGAAACCTTGGGATGATGAGACAGATATGGCGAAATTAGAGGAGTGCCTCAGAAGCATTCAAGCAGACG  
GCTTAGTCTGGGGCTCATCTAACTAGTTCCAGTGGGATACGGAATTAAGAACTTCAAATACAGTGTGTAGTTG  
AAGATGATAAAGTTGGAACAGATATGCTGGAGGAGCAGATCACTGCTTTTGAGGACTATGTGCAGTCCATGGATG  
TGGCTGCTTTCAACAAGATCTAAAATCCATCCTGGATCATGGCATTTAAATAAAAGATTGAAAGATTAAAA

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**FIGURE 949**

MGFGDLKSPAGLQVLNDYLADKSYIEGYVPSQADVAVFEAVSSPPPADLCHALRWYNHIKSYEKEKASLPGVKKA  
LGKYGPADVEDTTGSGATDSKDDDDIDLFGSDDEEESEEAKRLREERLAQYESKKAKKPALVAKSSILLDVKPWD  
DETDMAKLEECVRSIQADGLVWGSSKLVFVGYGIIKLQIQCVVEDDKVGTDMLEEQITAFEDYVQSMDDVAAFNKI



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**FIGURE 950**

GGACAATTTGTGGGCCATTTAATTCAGGGCCCCCAATTCGTACGTGGAGAAGTGGGAATGCAAAAGTACTTTGAC  
CTTTAACCTTCGGTCCGGCGCGGTGGAGGGAAACGCCTCCGTCTCTATATAAGGAATTTTCCGGTCTCTTCGGGT  
CCTTTTTCCTCTCTTCAGCGTGGGGCGCCCAACAATTTGCGCGCTCTCTTTCTGCTGCTCCCCAGCTCTCGGATAC  
AGCCGACACCATGGGTTTCGGAGACCTGAAAAGCCCTGCCGGCCTCCAGGTGCTCAACGATTACCTGGCGGACAA  
GAGCTACATCGAGGGGTATGTGCCATCACAAGCAGATGTGGCAGTATTTGAAGCCGTGTCCAGCCCACCGCCTGC  
CGACTTGTGTCATGCCCTACGTTGGTATAATCACATCAAGTCTTACGAAAAGGAAAAGGCCAGCCTGCCAGGAGT  
GAAGAAAGCTTTGGGCAAATATGGTCCTGCCGATGTGGAAGACACTACAGGAAGTGGAGCTACAGATAGTAAAGA  
TGATGATGACATTGACCTCTTTGGATCTGATGATGAGGAGGAAAGTGAAGAAGCAAAGAGGCTAAGGGAAGAACG  
TCTTGACAATATGAATCAAAGAAAGCCAAAAAACCTGCACCTTGTTGCCAAGTCTTCCATCTTACTAGATGTGAA  
ACCTTGGGATGATGAGACAGATATGGCGAAATTAGAGGAGTGCCTCAGAAGCATTCAAGCAGACGGCTTAGTCTG  
GGGCTCATCTAACTAGTTCCAGTGGGATACGGAATTAAGAACTTCAAATACAGTGTGTAGTTGAAGATGATAA  
AGTTGGAACAGATATGCTGGAGGAGCAGATCACTGCTTTTGAGGACTATGTGCAGTCCATGGATGTGGCTGCTTT  
CAACAAGATCTTAAAATCCATCCTGGATCATGGCATTATAAATAAAAGATTGAAAGATTAAAA

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**FIGURE 951**

MGFGDLKSPAGLQVLNDYLADKSYIEGYVPSQADVAVFEAVSSPPPADLCHALRWYNHIKSYEKEKASLPGVKKA  
LGKYGPADVEDTTGSGATDSKDDDDIDLFGSDDEEESEEAERLREERLAQYESKKAKKPALVAKSSILLDVKPWD  
DETDMAKLEECVRSIQADGLVWGSSKLVPVGYGIKKLQICVVEDDKVGTDMLEEQITAFEDYVQSM DVAAFNKI

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**FIGURE 952**

GAAGGGGCGGGGCCAAAACCTGCGCGCCCAATCGGGGTGACGCTCTAGCCTTGCCGGGGACTCGTGGGTAACTTGC  
TTTTGGGAGCCAGCGGTATGGCGTCGGGCTGCAAGATTGGCCCGTCCATCCTCAACAGCGACCTGGCCAATTTAG  
GGGCGGAGTGCTCCGGATGCTAGACTCTGGGGCCGATTATCTGCACCTGGACGTAATGGACGGGCATTTTGTTC  
CAACATCACCTTTGGTCACCCTGTGGTAGAAAGCCTTCGAAAGCAGCTAGGCCAGGACCCTTTCTTTGACATGCA  
CATGATGGTGTCCAAGCCAGAACAGTGGGTAAAGCCAATGGCTGTAGCAGGAGCCAATCAGTACACCTTTTCATCT  
CGAGGCTACTGAGAACCCAGGGGCTTTGATTAAAGACATTCCGGGAGAATGGGATGAAGGTTGGCCTTGCCATCAA  
ACCAGGAACCTCAGTTGAGTATTTGGCACCATGGGCTAATCAGATAGATATGGCCTTGGTTATGACAGTGGAAACC  
GGGGTTTGGAGGGCAGAAATTCATGGAAGATATGATGCCAAAGGTTCACTGGTTGAGGACCCAGTTCCCATCTTT  
GGATATAGAGGTGCGATGGTGGAGTAGGTCCTGACACTGTCCATAAATGTGCAGAGGCAGGAGCTAACATGATTGT  
GTCTGGCAGTGCTATTATGAGGAGTGAAGACCCAGATCTGTGATCAATCTATTAAGAAATGTTTGCTCAGAAGC  
TGCTCAGAAACGTTCTCTTGATCGGTGAAACCATAAGGAGCCAGTGTTTCTGTTTCATGAAATCTCCCTTTTACT  
GGAAACAGGAATATTGACTACCAATCACAATGCAATTGAAGCCGTAAGTCTTTTGGAGCAGTTATTTCATTCC  
AGTGATTAAACTGATTGTGAGAATATTCTAAGAGGTGAGAAATGGTGTGTATAACTACATTTTATGATGTC  
AATTTATTGATTAGTGAGTAAGATACTGTTTTATTGAGAGATTTGATTTTATAAAGTAAAAATACGGCTGCAT  
TAGGGTTACAAACAGAAAAGTGCTTAATGTCTAAGGAGGGCATATTAGCTACACTACAAAAACAAATTTGTCT  
GTACTTCTGAAAAGAATTTTGTGTTTCTCAGCTGTTTTCCAAAAGCAAAGGAAGTCTTTATGGTTTTTCTAT  
TTCATGTTATTGTGATTTGTTTATAAGTTTGGGTGGGGTGATACCATATTCTTGGTTCTTAAATCTATCACTT  
TTCACCTTACACTTGATGTGTGAAAACATAAAAAAATGTGTGAAACCCAGGGTTCTAAATACAAGCATAGA  
TTTTATCAGGGTGTGTTTGTCAAAGCAGGTTATTTCAGTGATTCCTCCCAACCATCTTAAAGACGTTAAATAATGC  
TGTTGTGTTAGCTCTGAGTAGAAAGGAAAAAGTAAACCTCTGTTTGGAGGTAATATTGGGTGGAATTCTGACTG  
CCCCTTTCTAGCTGGACCTTTAACAATCACCAATCTTTTTTGTGTTTCTCTAAAGTCATTTATACATTAAATG  
TAATTATAGCAACTGTGGGGTTCTGTTGAGAATTAAGAGCTAACACTATATGTAAAGTTTCCAGTACTAGTCC  
CAGAATTTAGAAATATGCTCAACACAAAAGTAAACAGCATTATATAAGTTTATATTTTGTGAGTTATAAAGTACTT  
TGATATATTCTCATTAATCTGTAAATCACCTCTATAAGTAAGTGGTAATAATAAAGCAGATATTTTGTCCCA  
TTAAAAAATGAAGAAATTAATGCTTAATAGGGTGGTACCCTGGAAAGGATCTGGGAAGTGGTAGAATTTCTGGT  
CTGTACTTTTACAAATGGAGCCCTTGGGAGGTGGGTAGGTAAGAAGCTTTTACTTAACGTTGTCTTATTTC  
CAGTCTAATTTTACGCTGTAGCAGAACCAGATGGCTGAGAAAATCTGGAACCTATGGATCTTGACCCCAAGGATA  
TATTATTTTATTCCAAGAAAGATCAGGTAGGCGAAAAGATGACAGGATACAGAGTCAATCCATAAACTAAATAT  
TATAACTGTTCTGAATTATACAGAGTCTAAAAATATGTGTCAGCTACTTCATTCTGTAAATACTCTTGCTGTGT  
TATAAATATGGCAAGAAATAAACATGACCAATATCAATAGACTTCTTGAGGCTACTATAAGTTTGGAGAAATAAG  
GTTCAAAAAATAAGAAATGCTAACACTTAAGCACAGACTAGAGCTTGCTTGGGTTTCTTCTGCATTACAAGGTAA  
AAATTTGTTAATGTTTGTGTTTTATTTCAGCTTGGGAAAGCTTTGTGCCATGAATACGTCGCATTAAATAACAAGCA  
ACACACGGCATATAGAAATAACTTTAATTAAAAAATTTACATAGAAGATTATAATATCAGACGTGACAAAGATT  
GAGTTTATTGCTGGACAACCTGGGTTTGTCTGGCTTTTGTGTTTCTTTTCTTTAAAAATAAATGTACAGTAA  
ACTAC

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**FIGURE 953**

MLDSGADYLLHLDVMDGHFVPNITFGHPVVESLRKQLGQDPFFDMHMMVSKPEQWVKPMAVAGANQYTFHLEATEN  
PGALIKDIRENGMKVGLAIKPGTSVEYLPWANQIDMALVMTVEPGFGGQKFMEDMMPKVHWLRTQFPSLDIEVD  
GGVGPDTVHKCAEAGANMIVSGSAIMRSEDPRSVINLLRNVCSAAQKRSLDR

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**FIGURE 954A**

GAAGAGCAAGAGGCAGGCTCAGCAAATGGTTTCAGCCCCAGTCCCCGGTGGCTGTCAGTCAAAGCAAGCCCCGGTTG  
TTATGACAATGGAACACTATCAGATAAATCAACAGTGGGAGCGGACCTACCTAGGCAATGCGTTGGTTTGTAC  
TTGTTATGGAGGAAGCCGAGGTTTTAACTGCGAGAGTAAACCTGAAGCTGAAGAGACTTGCTTTGACAAGTACAC  
TGGGAACACTTACCGAGTGGGTGACACTTATGAGCGTCTTAAAGACTCCATGATCTGGGACTGTACCTGCATCGG  
GGCTGGGCGAGGGAGAATAAGCTGTACCATCGCAAACCGTGCCATGAAGGGGGTCAGTCTACAAGATTGGTGA  
CACCTGGAGGAGACCACATGAGACTGGTGGTTACATGTTAGAGTGTGTGTGCTTGGTAATGGAAGGAGAATG  
GACCTGCAAGCCCATAGCTGAGAAGTGTGTTGATCATGCTGCTGGGACTTCCTATGTGGTCGGAGAAACGTGGGA  
GAAGCCCTACCAAGGCTGGATGATGGTAGATTGTAATTGCTTGGGAGAAAGGCAGCGGACGCATCACTTGCACCTC  
TAGAAATAGATGCAACGATCAGGACACAAGGACATCCTATAGAATTGGAGACACCTGGAGCAAGAAGGATAATCG  
AGGAAACCTGCTCCAGTGCATCTGCACAGGCAACGGCCGAGGAGTGGAAAGTGTGAGAGGCACACCTCTGTGCA  
GACCACATCGAGCGGATCTGGCCCCCTTACCAGTGTTCGTGCAGCTGTTTACCAACCGCAGCCTCACCCTCAGCC  
TCCCTCCCTATGGCCACTGTGTACAGACAGTGGTGTGGTCTACTCTGTGGGGATGCAGTGGCTGAAGACACAAGG  
AAATAAGCAAATGCTTTGCACGTGCCTGGGCAACGGAGTCAGCTGCCAAGAGACAGCTGTAACCCAGACTTACGG  
TGGCAACTCAAATGGAGAGCCATGTGTCTTACCATTACCTACAATGGCAGGACGTTCTACTCTGCACCACAGA  
AGGGCGACAGGACGGACATCTTTGGTGCAGCACAACTTCGAATTATGAGCAGGACCAGAAATACTCTTTCTGCAC  
AGACCACACTGTTTTGGTTTCAGACTCGAGGAGGAAATTCCAATGGTGCCTTGTGCCACTTCCCCTTCTATACAA  
CAACCACAATTACACTGATTGCACTTCTGAGGGCAGAAGAGACAACATGAAGTGGTGTGGGACCACACAGAATA  
TGATGCCGACCAGAAGTTTTGGGTTCTGCCCCATGGCTGCCACGAGGAAATCTGCACAACCAATGAAGGGTGCAT  
GTACCGCATTTGGAGATCAGTGGGATAAGCAGCATGACATGGGTACATGATGAGGTGCACGTGTGTTGGGAATGG  
TCGTGGGGAATGGACATGCATTGCCTACTCGCAGCTTCGAGATCAGTGCAATTGTTGATGACATCACTTACAATGT  
GAACGACACATTCCACAAGCGTCTGAAGAGGGGCACATGCTGAACGTACATGCTTCGGTCAGGGTCGGGGCAG  
GTGGAAGTGTGATCCCGTCGACCAATGCCAGGATTCAGAGACTGGGACGTTTTATCAAATTGGAGATTTCATGGGA  
GAAGTATGTGCATGGTGTGAGATACCAAGTGTCTACTGCTATGGCCGTGGCATTGGGGAGTGGCATTGCCAACCTTT  
ACAGACCTATCCAAGCTCAAGTGGTCTGTGCAAGTATTTATCACTGAGACTCCGAGTCAGCCCCAACTCCCACCC  
CATCCAGTGGAAATGCACCACAGCCATCTCACATTTCCAAGTACATTCTCAGGTGGAGACCTAAAAATTTCTGATGG  
CCGTGGAAGGAAGCTACCATACAGGCCACTTAACTCCTACACCATCAAAGGCCTGAAGCCTGGTGTGGTATA  
CGAGGGCCAGCTCATCAGCATCCAGCAGTACGGCCACCAAGAAGTACTCGCTTTGACTTCACCACCACAGCAC  
CAGCACACCTGTGACCAGCAACACCGTGACAGGAGAGACGACTCCCTTTTCTCCTCTTGTGGCCACTTCTGAATC  
TGTGACCGAAATCACAGCCAGTAGCTTTGTGGTCTCCTGGGTCTCAGCTTCCGACACCGTGTGGGATTCCGGGT  
GGAATATGAGCTGAGTGAGGAGGGAGATGAGCCACAGTACCTGGATCTTCCAAGCACAGCCACTTCTGTGAACAT  
CCCTGACCTGCTTCTGGCCGAAAATACATTGTAAATGTCTATCAGATATCTGAGGATGGGGAGCAGAGTTTGAT  
CCTGTCTACTTCACAAACAACAGCGCTGATGCCCCCTCTGACACGACTGTGGACCAAGTTGATGACACCTCAAT  
TGTGTTGCTCGTGGAGCAGACCCAGGCTCCCATCACAGGTACAGAATAGTCTATTCGCCATCAGTAGAAGGTAG  
CAGCACAGAACTCAACCTTCTGAACTGCAAACTCCGTACCCCTCAGTGACTTGCAACCTGGTGTTCAGTATAA  
CATCACTATCTATGCTGTGGAAGAAAATCAAGAAAGTACACCTGTTGTCAATCAACAAGAAACCACTGGCACCCC  
ACGCTCAGATACAGTGCCCTCTCCCAGGGACCTGCAGTTTGTGGAAGTGACAGACGTGAAGGTCACCATCATGTG  
GACACCGCCTGAGAGTGAGTGACCGGCTACCGTGTGGATGTGATCCCCGTCAACCTGCCTGGCGAGCACGGGCA  
GAGGCTGCCCATCAGCAGGAACACCTTTGCAGAAGTACCGGGCTGTCCCCCTGGGGTCACCTATTACTTCAAAGT  
CTTTGCAGTGAGCCATGGGAGGGAGAGCAAGCCTCTGACTGCTCAACAGACAACCAAACTGGATGCTCCCACTAA  
CCTCCAGTTTGTCAATGAACTGATTCTACTGTCTGTTGAGATGGACTCCACCTCGGGCCCAGATAACAGGATA  
CCGACTGACCGTGGGCCCTTACCCGAAGAGGACAGCCAGGAGTACAATGTGGGTCCCTCTGTCTCCAAGTACCC  
ACTGAGGAATCTGCAGCCTGCATCTGAGTACACCGTATCCCTCGTGGCCATAAAGGGCAACCAAGAGAGCCCCAA  
AGCCACTGGAGTCTTTACCACACTGCAGCTGGGAGCTCTATTCCACCTTACAACACCGAGGTGACTGAGACCAC  
CATTGTGATCACATGGACGCTGCTCCAAGAATTGGTTTTAAGCTGGGTGTACGACCAAGCCAGGGAGGAGAGGC  
ACCACGAGAAGTGACTTCAGACTCAGGAAGCATCGTTGTGTCCGGCTTGAATCCAGGAGTAGAATACGTCTACAC  
CATCCAAGTCTGAGAGATGGACAGGAAAGAGATGCGCCAATTGTAAACAAAGTGGTGACACCATTGTCTCCACC  
AACAACTTGCATCTGGAGGCAAAACCTGACACTGGAGTGCTCACAGTCTCCTGGGAGAGGAGCACCACCCAGA  
CATTACTGGTTATAGAATTACCACAACCCCTACAAACGGCCAGCAGGGAAATTCTTTGGAAGAAGTGGTCCATGC

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**FIGURE 954B**

TGATCAGAGCTCCTGCACTTTTGATAACCTGAGTCCCGGCTGGAGTACAATGTCAGTGTTCACACTGTCAAGGA  
TGACAAGGAAAGTGTCCCTATCTCTGATACCATCATCCAGCTGTTCCCTCCCTCCACTGACCTGCGATTACACAA  
CATTGGTCCAGACACCATGCGTGTACCTGGGCTCCACCCCATCCATTGATTAAACCAACTTCCTGGTGCGTTA  
CTCACCTGTGAAAAATGAGGAAGATGTTGCAGAGTTGTCAATTTCTCCTTCAGACAATGCAGTGGTCTTAACAAA  
TCTCCTGCCTGGTACAGAATATGTAGTGAGTGTCTCCAGTGTCTACGAACAACATGAGAGCACACCTCTTAGAGG  
AAGACAGAAAACAGGTCTTGATTCCCCAACTGGCATTGACTTTTCTGATATTACTGCCAACTCTTTTACTGTGCA  
CTGGATTGCTCCTCGAGCCACCATCACTGGCTACAGGATCCGCCATCATCCCGAGCACTTCAGTGGGAGACCTCG  
AGAAGATCGGGTGCCCCACTCTCGGAATTCCATCACCCCTACCAACCTCACTCCAGGCACAGAGTATGTGGTCAG  
CATCGTTGCTCTTAATGGCAGAGAGGAAAGTCCCTTATTGATTGGCCAACAATCAACAGTTTCTGATGTTCCGAG  
GGACCTGGAAAGTTGTTGCTGCGACCCCCACCAGCCTACTGATCAGCTGGGATGCTCCTGCTGTGCACAGTGAGATA  
TTACAGGATCACTTACGGAGAGACAGGAGGAAATAGCCCTGTCCAGGAGTTCACTGTGCCTGGGAGCAAGTCTAC  
AGCTACCATCAGCGGCCCTTAAACCTGGAGTTGATTATACCATCACTGTGTATGCTGTCACTGGCCGTGGAGACAG  
CCCCGCAAGCAGCAAGCCAATTTCCATTAAATTACCGAACAGAAATTGACAAACCATCCAGATGCAAGTGACCGA  
TGTTTCAGGACAACAGCATTAGTGTCAAGTGGCTGCCTTCAAGTTCCCTGTTACTGGTTACAGAGTAACCAACAC  
TCCCCAAAATGGACCAGGACCAACAAAACTAAACTGCAGGTCCAGATCAAACAGAAATGACTATTGAAGGCTT  
GCAGCCCACAGTGGAGTATGTGGTTAGTGTCTATGCTCAGAATCCAAGCGGAGAGAGTCAGCCTCTGGTTCAGAC  
TGCAGTAACCAACATTGATCGCCCTAAAGGACTGGCATTCACTGATGTGGATGTCGATTCCATCAAAATTGCTTG  
GGAAAGCCCACAGGGGCAAGTTTCCAGGTACAGGGTGACCTACTCGAGCCCTGAGGATGGAATCCATGAGCTATT  
CCCTGCACCTGATGGTGAAGAAGACACTGCAGAGCTGCAAGGCCTCAGACCGGGTCTGAGTACACAGTCAGTGT  
GGTTGCCTTGCCAGATGATATGGAGAGCCAGCCCTGATTGGAACCCAGTCCACAGCTATTCTGCACCAACTGA  
CCTGAAGTTCACTCAGGTACACCCACAAGCCTGAGCGCCAGTGGACACCAACCAATGTTTCAGCTCACTGGATA  
TCGAGTGCGGGTGACCCCAAGGAGAAGACCGGACCAATGAAAGAAATCAACCTTGCTCCTGACAGCTCATCCGT  
GGTTGTATCAGGACTTATGGTGGCCACCAATATGAAGTGAGTGTCTATGCTCTTAAGGACACTTTGACAAGCAG  
ACCAGCTCAGGGAGTTGTACCACTCTGGAGAATGTGAGCCACCAAGAAGGGCTCGTGTGACAGATGCTACTGA  
GACCACCATCACCATTAGCTGGAGAACCAAGACTGAGACGATCACTGGCTTCCAAGTTGATGCCGTTCCAGCCAA  
TGGCCAGACTCCAATCCAGAGAACCATCAAGCCAGATGTGAGAAGTACACCATCACAGTTTACAACCAGGCAC  
TGACTACAAGATCTACCTGTACACCTGAATGACAATGCTCGGAGCTCCCTGTGGTTCATCGACGCCCTCCACTGC  
CATTGATGCACCATCCAACCTGCGTTTCTGGCCACCACACCCAATTCCTTGCTGGTATCATGGCAGCCGCCACG  
TGCCAGGATTACCGGTACATCATCAAGTATGAGAAGCCTGGGTCTCCTCCCAGAGAAGTGGTCCCTCGGCCCCG  
CCCTGGTGTACAGAGGCTACTATTACTGGCCTGGAACCGGGAACCGAATATACAATTTATGTCATTGCCCTGAA  
GAATAATCAGAAGAGCGAGCCCTGATTGGAAGGAAAAAGACAGACGAGCTTCCCCAACTGGTAACCTTCCACA  
CCCCAATCTTCATGGACCAGAGATCTTGGATGTTCCCTCCACAGTTCAAAGACCCCTTTCGTACCCACCCCTGG  
GTATGACACTGGAATGGTATTAGCTTCTCGGCACTTCTGGTCAGCAACCCAGTGTGGGCAACAAATGATCTT  
TGAGGAACATGGTTTTAGGCGGACCACACCGCCACAACGGCCACCCCATAGGCATAGGCCAAGACCATAACC  
GCCGAATGTAGGACAAGAAGCTCTCTCTCAGACAACCATCTCATGGGCCCCATTCCAGGACACTTCTGAGTACAT  
CATTTTCATGTCTCCTGTTGGCACTGATGAAGAACCCTTACAGTTTCAGGGTCTCTGGAACCTTACCACTGCCAC  
TCTGACAGGCCTCACCAGAGGTGCCACCTACAACGTCATAGTGGAGGCACTGAAAGACCAGCAGAGGCATAAGGT  
TCGGGAAGAGGTTGTTACCGTGGGCAACTCTGTCAACGAAGGCTTGAACCAACCTACGGATGACTCGTGCTTTGA  
CCCCACACAGTTTCCCATTTATGCCGTTGGAGATGAGTGGGAACGAATGTCTGAATCAGGCTTTAAACTGTTGTG  
CCAGTGCTTAGGCTTTGGAAGTGGTCATTTAGATGTGATTATCTAGATGGTGCCATGACAATGGTGTGAACCTA  
CAAGATTGGAGAGAAGTGGGACCGTCAGGGAGAAAATGGCCAGATGATGAGCTGCACATGTCTTGGGAACGGAAA  
AGGAGAATTCAAGTGTGACCCCTCATGAGGCAACGTGTTATGATGATGGGAAGACATACCAGTAGGAGAACAGTG  
GCAGAAGGAATATCTCGGTGCCATTTGCTCCTGCACATGCTTTGGAGGCCAGCGGGCTGGCGCTGTGACAACCTG  
CCGCAGACCTGGGGGTGAACCCAGTCCCGAAGGCACTACTGGCCAGTCTTACAACCAAGTATTCTCAGAGATACCA  
TCAGAGAACAAACACTAATGTTAATTGCCCAATTGAGTGCTTCATGCCTTTAGATGTACAGGCTGACAGAGAAGA  
TTCCCGAGAGTAAATCATCTTTCCAATCCAGAGGAACAAGCATGTCTCTCTGCCAAGATCCATCTAAACTGGAGT  
GATGTTAGCAGACCCAGCTTAGAGTTCTTTCTTTCTTAAAGCCCTTTGCTCTGGAGGAAGTTCTCCAGCTTCA  
GCTCAACTCACAGCTTCTCAAGCATCACCTGGGAGTTTCTGAGGGTTTTCTCATAAATGAGGGCTGCACATT

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**FIGURE 954C**

GCCTGTTCTGCTTCGAAGTATTCAATACCGCTCAGTATTTTAAATGAAGTGATTCTAAGATTTGGTTTGGGATCA  
ATAGGAAAGCATATGCAGCCAACCAAGATGCAAATGTTTTGAAATGATATGACCAAAATTTTAAGTAGGAAAGTC  
ACCCAAACACTTCTGCTTTTCACTTAAGTGTCTGGCCCGCAATACTGTAGGAACAAGCATGATCTTGTACTGTGA  
TATTTTAAATATCCACAGTACTCACTTTTTCCAAATGATCCTAGTAATTGCCTAGAAATATCTTCTCTTACCTG  
TTATTTATCAATTTTCCAGTATTTTATACGGAAAAAATTGTATTGAAAACACTTAGTATGCAGTTGATAAGA  
GGAATTTGGTATAATTATGGTGGGTGATTATTTTTTATCTGTATGTGCCAAAGCTTTACTACTGTGGAAGACA  
ACTGTTTTAATAAAAGATTTACATTCC

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**FIGURE 955**

CGGCAGCCCTCCTACCTGCGCACGTGGTGCCGCTGCTGCTGCCTCCCGCTCGCCCTGAACCCAGTGCCTGCAGCC  
ATGGCTCCCGGCCAGCTCGCCTTATTAGTGTCTCTGACAAAACCGGCCTTGTGGAATTGCAAGAAACCTGACC  
GCTCTTGGTTTGAATCTGGTCGCTTCCGGAGGGACTGCAAAAGCTCTCAGGGATGCTGGTCTGGCAGTCAGAGAT  
GTCTCTGAGTTGACGGGATTTCTGAAATGTTGGGGGGACGTGTGAAAACCTTGCATCCTGCAGTCCATGCTGGA  
ATCCTAGCTCGTAATATTCCAGAAGATAATGCTGACATGGCCAGACTTGATTTCATCTTATAAGAGTTGTTGCC  
TGCAATCTCTATCCCTTTGTAAAGACAGTGGCTTCTCCAGGTGTAACCTGTTGAGGAGGCTGTGGAGCAAATTGAC  
ATTGGTGGAGTAACCTTACTGAGAGCTGCAGCCAAAACACGCTCGAGTGACAGTGGTGTGTGAACCAGAGGAC  
TATGTGGTGGTGTCCACGGAGATGCAGAGCTCCGAGAGTAAGGACACCTCCTTGGAGACTAGACGCCAGTTAGCC  
TTGAAGGCATTCACTCATACGGCACAATATGATGAAGCAATTTAGATTATTTAGGAAACAGTACAGCAAAGGC  
GTATCTCAGATGCCCTTGAGATATGGAATGAACCCACATCAGACCCCTGCCAGCTGTACACACTGCAGCCCAAG  
CTTCCCATCACAGTTCTAAATGGAGCCCCGGATTTATAAATCTGTGCGATGCTTTGAACGCCCTGGCAGCTGGTG  
AAGGAACTCAAGGAGGCTTTAGGTATTCCAGCCGCTGCCTCTTTCAAACATGTCAGCCCAGCAGGTGCTGCTGTT  
GGAATTCCTACTCAGTGAAGATGAGGCCAAAGTCTGCATGGTTTATGATCTCTATAAAACCTCACACCCATCTCA  
GCGGCATATGCAAGAGCAAGAGGGGCTGATAGGATGTCTTCATTTGGTGATTTTGTTCATTGTCCGATGTTTGT  
GATGTACCAACTGCAAAAATTATTTCCAGAGAAGTATCTGATGGTATAATTGCCCCAGGATATGAAGAAGAAGCC  
TTGACAATACTTTCCAAAAGAAAAATGGAACCTATTGTGTCCTTCAGATGGACCAATCTTACAAACCAGATGAA  
AATGAAGTTCGAACCTCTCTTTGGTCTTCATTTAAGCCAGAAGAGAAAATAATGGTGTGCTCGACAAGTCATTATTT  
AGCAATGTTGTTACCAAAAATAAAGATTTGCCAGAGTCTGCCCTCCGAGACCTCATCGTAGCCACCATTTGCTGTC  
AAGTACACTCAGTCTAACTCTGTGTGCTACGCCAAGAACGGGCAGGTATCGGCATTGGAGCAGGACAGCAGTCT  
CGTATACACTGCACTCGCCTTGCCAGGAGATAAGGCAAACTATTGGTGGCTTAGACACCATCCACAAGTGCTTTTCG  
ATGAAGTTTAAACAGGAGTGAAGAGAGCAGAAATCTCCAATGCCATCGATCAATATGTGACTGGAACCATTTGGC  
GAGGATGAAGATTTGATAAAGTGAAGGCACCTGTTGAGGAAGTCCCTGAGTTACTCACTGAGGCAGAGAAGAAG  
GAATGGGTTGAGAACTGACTGAAGTTTCTATCAGCTCTGATGCCCTTCTTCCCTTTCCGAGATAACGTAGACAGA  
GCTAAAAGGAGTGGTGTGGCGTACATTGCGGCTCCCTCCGGTCTGCTGCTGACAAAGTTGTGATTGAGGCTGTC  
GACGAACCTGGGAATCATCTCGCTCATACGAACCTTCGGCTCTTCCACCACTGATTTTACCACACACTGTTTTTT  
GGCTTGCTTATGTGTAGGTGAACAGTCACGCCTGAACTTTGAGGATAACTTTTTAAAAAATAAAACAGTATCT  
CTTAAAACAATGTTTTGATCTACATAAACATTGTAAAAATTTCAATCACGCTTTTTAACTTTCTTACCACAAAA  
AAATGATAAGTGGGTGAAGTGATGGTTATGTTAATTAGCGTGC



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**FIGURE 956**

MAPGQLALFSVSDKTGLVEFARNLTALGLNLVASGGTAKALRDAGLAVRDVSELTGFPEMLGGRVKTLHPAVHAG  
ILARNIPEDNADMARLDFNLIRVVACNLYPFVKTVASPGVTVEEAVEQIDIGGVTLRLAAAKNHARVTVVCEPED  
YVVVSTEMQSSESKDTSLETRRQLALKAFTHTAQYDEAISDYFRKQYSKGVSQMPLRYGMNPHQTPAQLYTLQPK  
LPITVLNGAPGFINLCDALNAWQLVKELKEALGIPAAASFKEHVSPAGAAVGIPLSEDEAKVCMVVDLYKTLTPIS  
AAYARARGADRMSSFQDFVALSDVCDVPTAKIISREVSDGIIAPGYEEEALTILSKKKNGNYCVLQMDQSYKPDE  
NEVRTLFGLHLSQKRNNGVVDKSLFSNVVTKNKDLPESALRDLIVATIAVKYTSNSVCYAKNGQVIGIGAGQQS  
RIHCTRLAGDKANYWLRHHPQVLSMKFKTGKRAEISNAIDQYVTGTIGEDDLIKWKALFEEVPELLTEAEKK  
EWVEKLTEVSISSDAFFPFRDNVDRAKRSVAYIAAPSGSAADKVVEACDELGIILAHTNLRLFHH

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**FIGURE 957**

GCAGCCAATTAAGCCAACTGAGTTCCTTTTCCTTGTGGGGGCCAGTGTGCAATGGCTGCACACAGCAGCTTCCTT  
GGTAGTGTACACAGCCTGTTGGTTGTATGGGTTGCTCTGAGGGACCTTGGAGACAGGCCTTTCCAATGGATGTTT  
ATGTTTCTGACCTTGCGCTACCCCAATGTAGGCTCCAAACAGGCATGCGAGGTGCCTTTGGAATGCCCCAGGGCA  
CTGTGGCCAGGGTTTACATTGGCCAAGTTATCATGTCCATCCGCACCAAGCTGCAGAACAAGGAGCATGTGATTG  
AGGCCCTGCGCAGGGCCAAGTTCAAGCTTCCTGGCCACCAGAAGATCCACATCTCAAAGAAGTGGGGCTTCACCA  
AGTTCAATGCTGATGAATTTGAAGACATGGTGGCTGAGAAGTGGCTCATCCCAGATGGCTGTGGGGTCAAGTACA  
TCCCCAATCGTGGCCCTCTGGACAAGTGGCGGGCCCTGCACTCATGAGGGCTTCCAATGTGCTGCCCCCTCTTA  
ATACTCACCAATAAATTCTACTTCCTGTCAAAAAAATGTCACTAATGTACCCTAAATTTTCTTTTTTATTTTAT  
TTTTTATTTATTTATTTATTTTATTTTGGAGATGGTGTCTTGCTCTTTTGCCAGACTGGAGTGAAGTAGCATGATCT  
TGGCTTACTGCAACCTCCACCCCCAG

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**FIGURE 958**

GGCGGGCGACCAAAGCGCCTGAGGACCGGCAACATGGTGCGGTCGGGGAATAAGGCAGCTGTTGTGCTGTGTATG  
GACGTGGGCTTTACCATGAGTAACTCCATTCTGGTATAGAATCCCCATTTGAACAAGCAAAGAAGGTGATAACC  
ATGTTTGTACAGCGCAGGTTGTTGCTGAGAACAAGGATGAGATTGCTTTAGTCCTGTTTGGTACAGATGGCACT  
GACAATCCCCTTTCTGGIGGGGATCAGTATCAGAACATCAGTGCACAGACATCTGATGCTACCAGATTTTGAT  
TTGCTGGAGGACATTGAAAGCAAATCCAACCAGGTTCTCAACAGGCTGACTTCCTGGATGCACTAATCGTGAGC  
ATGGATGTGATTCAACATGAAACAATAGGAAAGAAGTTTGAGAAGAGGCATATTGAAATATTTACTGACCTCAGC  
AGCCGATTTCAGCAAAAGTCAGCTGGATAATTATAATTCATAGCTTGAAGAAATGTGACATCTCCCTGCAATTTCTC  
TTGCCTTTCTCACTTGGCAAGGAAGATGGAAGTGGGGACAGAGGAGATGGCCCCCTTCGCTTAGGTGGCCATGGG  
CCTTCCTTTCCACTAAAAGGAATTACCGAACAGCAAAAAGAAGGTCTTGAGATAGTGAAAATGGTGATGATATCT  
TTAGAAGGTGAAGATGGGTTGGATGAAATTTATTTCATTTCAGTGAGAGTCTGAGAAAACCTGTGCGTCTTCAAGAAA  
ATTGAGAGGCATTCCATTCACTGGCCCTGCCGACTGACCATTGGCTCCAATTTGTCTATAAGGATTGCAGCCTAT  
AAATCGATTCTACAGGAGAGAGTTAAAAAGACTTGGACAGTTGTGGATGCAAAAACCTAAAAAAGAAGATATA  
CAAAAAGAAACAGTTTATTGCTTAAATGATGATGATGAACTGAAGTTTTAAAGAGGATATTATTCAAGGGTTC  
CGCTATGGAAGTGATATAGTTCTTTCTCTAAAGTGGATGAGGAACAAATGAAATATAAATCGGAGGGGAAGTGC  
TTCTCTGTTTTGGGATTTTGTAACTTCTCAGGTTTCAGAGAAGATTCTTCATGGGAAATCAAGTTCTAAAGGTC  
TTTGACGAAGAGATGATGAGGCAGCTGCAGTTGCATTTCTCCCTGATTTCATGCTTTGGATGACTTAGACATG  
GTGGCCATAGTTTCGATATGCTTATGACAAAAGAGCTAATCTCAAGTCGGCGTGGCTTTTCTCATATCAAGCAT  
AACTATGAGTGTTTGTGTATGTGCAGCTGCCTTTTCATGGAAGACTTGGCGCAATACATGTTTTCATCCTTGAAA  
AACAGTAAGAAATATGCTCCCACCGAGGCACAGTTGAATGTGTGATGCTTTGATTGACTCCATGAGCTTGGA  
AAGAAAGATGAGAAGACAGACACCCTTGAAGACTTGTTCACACCACCAAAATCCCAAATCCTCGATTTTCAGAGA  
TTATTTTCAGTGCTGCTGCACAGAGCTTTACATCCCCGGGAGCCTCTACCCCAATTTCAGCAGCATATTTGGAAT  
ATGCTGAATCCTCCCGCTGAGGTGACAACAAAAGTCAGATTCTCTCTCTAAAATAAAGACCCTTTTCTCTCTG  
ATTGAAGCCAAGAAAAGGATCAAGTGACTGCTCAGGAAATTTTCCAAGACAACCATGAAGATGGACCTACAGCT  
AAAAAATTAAGACTGAGCAAGGGGGAGCCCACTTCAGCGTCTCCAGTCTGGCTGAAGGCAGTGTCACCTCTGTT  
GGAAGTGTGAATCCTGTGAAAACCTCCGTGTTCTAGTGAACAGAAGAAGGCCAGCTTTGAGGAAGCGAGTAAC  
CAGCTCATAAATCACATCGAACAGTTTTTGGATACTAATGAAACACCGTATTTTATGAAGAGCATAGACTGCATC  
CGAGCCTTCCGGGAAGAAGCCATTAAAGTTTTCAGAAGAGCAGCGCTTTAACAACTTCTCTGAAAGCCCTTCAAGAG  
AAAGTGAAATTAACAATTAATCATTCTGGGAAATTTGTGTCCAGGATGGAATTACTCTGATCACCAGAGAG  
GAAGCCTCTGGAAGTTCTGTACAGCTGAGGAAGCCAAAAGTTTCTGGCCCCAAGACAAAACCAAGAGAC  
ACAGCAGCTGTATTTGAAGAAGGTGGTGATGTGGACGATTTATTGGACATGATATAGGTCGTGGATGTATGGGGA  
ATCTAAGAGAGCTGCCATCGCTGTGATGCTGGGAGTTCTAACAAAACAAGTTGGATGCGGCCATTCAAGGGGAGC  
CAAAATCTCAAGAAATTCAGCAGGTTACCTGGAGGCGGATCATCTAATTCCTGTGGAATGAATACACACATA  
TATATTACAAGGGATAATTTAGACCCCATACAAGTTTATAAAGAGTCATTGTTATTTTCTGGTTGGTGATTATT  
TTTTCTGTGGTCTTACTGATCTTTGTATATTACATACATGCTTTGAAGTTTCTGGAAAGTAGATCTTTTCTTGAC  
CTAGTATATCAGTGACAGTTGCAGCCCTTGTGATGTATTAGTGTCTCATGTGGAACCATGGCATGGTTATTGAT  
GAGTTTCTTAACCCTTTCCAGAGTCCTCCTTTGCCTGATCCCTCAACAGCTGTCAACACTTGTGTTGAGCAAGCA  
GTAGCATTGCTTCTCCCAACAAGCAGCTGGGTTAGGAAAACCATGGGTAAGGACGGACTCACTTCTCTTTTTTA  
GTTGAGGCCTTCTAGTTACCACATTACTCTGCCTCTGTATATAGGTGGTTTTCTTTAAGTGGGGTGGGAAGGGGA  
GCACAATTTCCCTTCATACTCCTTTTAAGCAGTGAGTTATGGTGGTGTCTCATGAAGAAAAGACCTTTTGCCCC  
AATCTCTGCCATATCAGTGAACCTTTAGAACTCAAAAAGTGAAGAAATTTACTTCAGTAGTTAGAATTATATCAC  
TTCATCTGTCTACTACTGCAAGCCTCAAGAGAGAAAGTTTCGTTATATTAAACACTTAGGTAACCTTTTCGGTC  
TTTCCCATTTCTACCTAAGTCAGCTTTTCATCTTTGTGGATGGTGTCTCTTTTACTAAAATAAGAAAATAACAAAGC  
CCTTATTCTCTTTTTTCTGTCTCATTCTTGCTTGAAGTTCCAGTTCTCTTTGGTGTACAGACTTCTTGTA  
CCAGTCACCTCTGTCTTCAGCACCTCATAAGTCGTCACTAATACACAGTTTTGTACATGTAACATTAAAGGCA  
TAAATGACTC

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**FIGURE 959**

MVRSGNKAADVLCMDVGFTMSNSIPGIESPFQAKKVITMFVQRQVFAENKDEIALVLFGTDGTDNPLSGGDQYQ  
NITVHRHMLPDPFDLLEDIESKIQPGSQADFLDALIVSMDVIQHETIGKKFEKRHIEIFTDLSSRFSKSQLDII  
IHSLKKCDISLQFFLPFSLGKEDGSGDRGDGPFRLGGHGPSFPLKGITEQQKEGLEIVKMVMISLEGEDGLDEIY  
SFSESLRKLCVFKKIERHSIHWPCRLTIGSNLSIRIAAYKSILQERVKKTWTVVDKTLKKEDIQKETVYCLNDD  
DETEVLKEDIIQGFYGSDIVPFSKVDEEQMKYKSEGKCFSVLGFCKSSQVQRFFMGNQVLKVFAARDDEAAAV  
ALSSLIHALDDLDMAIVRYAYDKRANPQGVAFPHIKHNYECLVYVQLPFMEDLRQYMFSSLKNSKKYAPTEAQ  
LNAVDALIDSMSLAKKDEKDTLEDLPPTTKIPNPRFQRLFQCLLHRALHPREPLPPIQQHIWNMLNPPAEVTTK  
SQIPLSKIKTLFPLIEAKKKDQVTAQEIFQDNHEDGPTAKKLKTEQGGAHFSVSSLAEGSVTSVGSVNPAENFRV  
LVKQKKASFEEASNQLINHIEQFLDTNETPYFMKSIDCIRAFREEAIKFSEEQRFNFLKALQEKVEIKQLNHF  
EIVVQDGITLITKEEASGSSVTAEAAKFLAPKDKPSGDTAAVFEEGGDVDDLLDMI

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**FIGURE 960A**

CTTTTTGAGGCAAGTTGGATGAACAGAGAAGGGAAGAGAGGAAGAACGAGAGGAAGAGAAGGGAAGGAAGTGTTT  
GTGTAGAAGAGAGAGAAAGACGAATAGAGTTAGGAAAAGGAAGACAAGCAGGTGGGCAGGAAGGACATGCACCGA  
GACCAGGCAGGGGCCCAACTTTACGTCCAGCCCTGGCCTGGGGTCGGGAGAGGTGGGCGCTAGAAGATGCAGCC  
CAGGATGTGGCAATCAATGACACTATTGGGGTTTCCCAGGATGGATTGGTCAGGGGGAGAAAGGAAAAGGCAAAA  
CACTCCAGGACCTCTCCCGATCTGTCTCCTCCTCTAGCCAGCAGTATGGACAGCTGGACCCCTGAACTTCTCT  
CCTCTTACCTGGGCAGAGTGTGTCTCTCCCAAATTTATAAAAACATAAATGCATTCCATTCTCTGAAAGCAA  
AACAAATTCATAATTGAGTGATATTAATAGAGAGGTTTTTCGGAAGCAGATCTGTGAATATGAAATACATGTGCA  
TATTTCAATTCACCCAGGCAGACATTTTTAGAAATCAATACATGCCCAATATTGGAAAGACTTGTTCTTCCACGG  
TGACTACAGTACATGCTGAAGCGTGCCGTTTCAGCCCTCATTAAATCAATTTGTAAGTAGCGCAGCAGCCCTCTG  
TGGGGGAGGATAGGCTGAAAAAAAAGTGGGCTCGTATTTATCTACAGGACTCCATATAGTCATATATAGGCAT  
ATAAATCTATTCTTTTTCTTTGTTTTTTCTTTCTTTCTTTCTTTCAAAGGTTTGCATTAACTTTCAAAGTAGT  
TCCTATAGGGGCAATTGAGGAGCTTCCTCATTCTGGGAAAACAGAGAAAACCCATATTCTCCTAATACAACCCGTA  
ATAGCATTTTTGCCTGCCTCGAGGCAGAGTTTTCCCGTGAGCAATAAACTCAGCTTTTTTGTTGGGGCACAGTACTG  
GATTTGACAGTGATTCCCCACGTGTGTTTCATCTGACCCACCGAGCCAGGCAGAGGCCAGCCCTCCGTGGTGAC  
ACAGCACGCGCTCAGTCCATCCCATTTTAGTCTTTAAACCCCTCAGGAAGTCACAGTCTCCGGACACCACCCAC  
ATGAGCCCCAACAGGTCCACGATGGATCCACCAGTCCCACCCAGCCTTTTCTTTTCATCTGAACAGAATGTGCAT  
TTTTGGAAGCTTCCCTCACTCTCCATGCTGGCAGAGCAGGAGGGAGACTGAAGTAAGAGATGGCAGAGGGAGATG  
GTGGCAAAAAGGTTTAGATGCAGGAGAACAGTAAGATGGATGGTTCCGGCCAGAGTCGATGTGGGGAGGAACAGA  
GGGCTGAAGGGAGAGGGGGCTGACTGTTCCATTCTAGCTTTGGCACAAAGCAGCAGAAAGGGGGAAAAGCCAATA  
GAAATTTCTTAGCTTCCCCACCATATGTATTTTCTAGGATTTGAGAGGAAAGAGAGGAAAATGGGGGAATGGGT  
TGCAAAATAGAAATGAGCTTAATCCAGGCCGAGAGCCAGGGAAGGTGAGTAACTTTAGGAGGGTGCTAGACTTT  
AGAAGCCAGATAGGAAGAATCAGTCTAACTGGCCATGCTTTGGAAGGGACAAGACTATGTGCTCCGCTGCCAC  
CTTCAGCCTGCAATGAGGGACTGAGGCCACGAGTCTTCCAGCTCTTCTCCTCATTCTGGCCAGTCCCTGCATCC  
TCCCTGGGGTGGAGGATGGAAGGAAAGCTGGGACAAGCAGGGAACGCATGATTACAGGATGCTGTCTACTCGGCAG  
CCAGATTCCGAAACTCCCATTTCTCAATGACTTCTCAACCAATGGGTGGCCTTGCTGACTGTTCTTTAAGGCTGA  
AGATATCCAGGAAAGGGGGCTTGACACTGGCCAAGGAGACCCCTTCGTGCTGTGGACACAGCTCTCTTCACTCT  
TTGCTCATGGCATGACACAGCGGAGACCGCCTCCAACAACGAATTTGGGGCTACGAAGAGGAATAGCGAAAAAGC  
AAATCTGTTTCAACTGATGGGAACCCATAGCTATAGAACTTGGGGCTATCTCCTATGCCCTGGACAGGACAG  
TTGGCTGGGGACAGGAGAAGTGCTCAATCTTCATGAGACAAAGGGGCCGATAGGGCCAGCAGCCACAAGGCCTT  
GACCTGCCGAGTCAGCATGCCCCATCTCTGACAGCTGTCCCTAAACCCAACTCACGTTTCTGTATGTCTTA  
GGCCAGTATCCCAAACCTCTTCCACGTCACTGTTCTTTCCACCCATTCTCCCTTTGCATCTTGAGCAGTTATCCA  
ACTAGGATCTGCCAAGTGGATACTGGGGTGCCACTCCCTGAGAAAAGACTGAGCCAGGAATACAAGCTCCCC  
CACATTCTCCAGCCTGGACCTAATCTTGAGAGGGCTCTCTCTTACGGACTGTGTCTGACTTTGAGCAGG  
CTTCTGCCCTTGGCTTGGCTCTTTGCTGCCAGCCATCAGGTGGGGGATTAGAGCCTGGTGTAAAGTGCGCCAGAC  
TCTTCCGGTTTCCAAAGTTTCGTGCCGGAACCCAAACCTGTGAGTCTCTTCTGCATGCAGGAGTTTCTCCTGGG  
CAGCTGGTCACTCCCCAGAGAAGCTGGGCCTTCATGGACACATGGAACTAAGCCTCCCAAATGGGAGTTCTGGCT  
GAGCCCAGGTGGGGAGATCCTGGGAAGGGAGGCACTGGAGGAAGACGGCACCTCTTCCCCATGGCAGGGGTG  
AGGGAGGCAGGTTTGAATGGTGCGAGTATGGCAATTAAGCAGGGGTCTGGTCTCTTTGACTCCAGGCTGGCCT  
TTGGCCGACTGTCTGCTCACCAGAGACCTTGACTCCGACTATCCATGGCTCCGAATCTAAGTGCTGCCACT  
CCCATGCTCACACCCACAGAAGGTCTTCCATCCCTTTAGATTGCTGCCCTCACTCCACCAGTGAGGAAGATGCC  
TCTGTCTTTCCACGACTGCCAGGAGATAGGGAAGCCAGCCAGGACTGACCTCCTTCTCCAGCCTGCCCTGA  
CCCACCTGGCAAAGCAGGGCACATGGGGAGGAAGAGACTGGAACCTTTCTTGACAGCCAGGCCTAGACAGACAG  
GCCTGGGGACACTGGCCCCATGAGGGGAGGAAGGCAGGCGCACGAGGTCCAGGGAGGCCCTTTCTGATCATGCC  
CCTTCTCTCCACCCATCTCCCCACCACCTCTGTGGCCTCCATGGTACCCCCACAGGGCTGGCCTCCCCCTA  
GAGGGTGGGCTCAACCACTGCTCCCGCCACGACCGGTTAGTGAGACAGGGCTCCGCCCCAGAATGGGAACCTCA  
CCCCTCAAGGTGGGACAGTACCCCGGACCCATCCACTCACTCCTGAGAGGGCTCCGCCCCAGAATGGGAACCTCA  
GAGAAGAGCTCTAAGGAGAAGAAACCCCATAGCGTCAGAGAGGATATGTCTGGCTTCCAAGAGAAAGGAGGCTCC  
GTTTTGCAAAGTGAGGAGGGACGAGGGACAGGGGTTTACCAGCCAGCAACCTGGGCCTTGACTGTCTGTGTT

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**FIGURE 960B**

TTTAAAACCACTAAAGTGCAAGAATTACATTGCACTGTTTCTCCACTTTTTATTTTCTCTTAGGCTTTTGTTTCT  
ATTTCAAACATACTTTCTTGGTTTTCTAATGGAGTATATAGTTTAGTCATTTACAGACTCTGGCCTCCTCTCCT  
GAAATCCTTTTGATGGGGAAAGGGAAGGTGGGGAGGGTCCGAGGGGAAGGGGACCCAGCTTCCCTGTGCCCCG  
TCACCCCACTCCACCAGTCCCCGGTCGCCAGCCGGAGTCTCCTCTCTACCGCCACTGTACACCGTAGCCACAT  
GGATAGCACAGTTGTCAGACAAGATTCCCTCAGATTCCGAGTGCCTACCGGTGTTTTCGTTGTTGTTGTTGTT  
GTTTTCTTTTTCTTTTTTTTTTTGAAGACAGCAATAACCACAGTACATATTACTGTAGTTCTCTATAGTTTTAC  
ATACATTCATACCATAACTCTGTTCTCTCCTCTTTTTTGTGTTTCACTTTAAAAACAAAAATAACGATGATAAT  
CTTTACTGGTGAAAAGGATGGAAAAATAAATCAACAAATGCAACCAGTTTGIGAG

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**FIGURE 961**

MLWKGQDYVLRCPPSACNEGLRPTSLSSSSSILASPCILPGVEDGRKAGTSRERMIQGCCHSAARFRNSHSPMTS  
STNGWPCDCSLRLKISRKGGLDTGQGDPFVLWTQLSSLFAHGMTQRRPPPTTNLGLRRGIAKKQICFN

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**FIGURE 962**

CCTCTGTGGCCTCCATGGTACCCCCACAGGGCTGGCCTCCCCTAGAGGGTGGGCCTCAACCACCTGCTCCCGCCA  
CGCACCGGTTAGTGAGACAGGGCTGCCACGGCAACCGCCAAGCCCCCTCAAGGTGGGACAGTACCCCGGACCCA  
TCCACTCACTCCTGAGAGGGCTCCGGCCCAGAATGGGAACCTCAGAGAAGAGCTCTAAGGAGAAGAAACCCATA  
GCGTCAGAGAGGATATGTCTGGCTTCCAAGAGAAAGGAGGCTCCGTTTTGCAAAGTGGAGGAGGGACGAGGGACA  
GGGGTTTCACCAGCCAGCAACCTGGGCCTTGTACTGTCTGTGTTTTTAAAACCACTAAAGTGCAAGAATTACATT  
GCACTGTTTCTCCACTTTTTATTTTCTCTTAGGCTTTTGTCTATTTCAAACATACTTTCTTGGTTTTCTAATG  
GAGTATATAGTTTAGTCATTTACAGACTCTGGCCTCCTCTCCTGAAATCCTTTTGGATGGGGAAAGGGAAGGTG  
GGGAGGGTCCGAGGGGAAGGGGACCCAGCTTCCCTGTGCCCGCTCACCCCACTCCACCAGTCCCGGTGCGCCAG  
CCGGAGTCTCCTCTCTACCGCCACTGTTCACACCGTAGCCACATGGATAGCACAGTTGTCAGACAAGATTCCCTC  
AGATTCCGAGTTGCCTACCGGTTGTTTTCGTTGTTGTTGTTGTTGTTTTTCTTTTCTTTTTTTTTTTGAAGACA  
GCAATAACCACAGTACATATTACTGTAGTTCTCTATAGTTTACATACATTCATACCATAACTCTGTTCTCTCCT  
CTTTTTGTTTTCACTTTAAAAACAAAAATAACGATGATAATCTTTACTGGTGAAAAGGATGGAAAAATAAAT  
CAACAAATGCAACCAGTTTGTGAGAAAAAAAAAAAAAGCCGAAAAAAAAAAAAA



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**FIGURE 963**

MVFPQGWPPLEGGPQPPAPATHRLVRQGCHGNRQAPLKVGYPGPIHSLLRGLRPRMGTSEKSSKEKKPHSVRED  
MSGFQEKGGSVLQSGGGTRDRGFTSQQPGPCTVCVFKTKVQELHCTVSPLFIFS

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**FIGURE 964**

GGCGAGGGAGGAGGAAGAAGCGGAGGAGGCGGCTCCCGCGCTCGCAGGGCCGTGCCACCTGCCCCGCCCGCCGCT  
CGCTCGCTCGCCCGCCGCGCCGCGCTGCCGACCGCCAGCATGCTGCCGAGAGTGGGCTGCCCCGCGCTGCCGCTG  
CCGCCGCCCGCCGCTGCTGCCGCTGCTGCTGCTGCTACTGGGCGCGAGTGGCGGGCGGGCGGGGCGCGCGCGGAG  
GTGCTGTTCCGCTGCCCCGCCCTGCACACCCGAGCGCTGGCCGCTGCGGGCCCCCGCCGGTTGCGCCGCCCGCC  
GCGGTGGCCGAGTGGCCGGAGGCGCCCGCATGCCATGCGCGGAGCTCGTCCGGGAGCCGGGCTGCGGCTGCTGC  
TCGGTGTGCGCCCGGCTGGAGGGCGAGGCGTGCGGCGTCTACACCCGCGCTGCGGCCAGGGGCTGCGCTGCTAT  
CCCCACCCGGGCTCCGAGCTGCCCTGCAGGCGCTGGTTCATGGGCGAGGGCACTTGTGAGAAGCGCCGGGACGCC  
GAGTATGGCGCCAGCCCGGAGCAGGTTGCAGACAATGGCGATGACCACTCAGAAGGAGGCCTGGTGGAGAACCAC  
GTGGACAGCACCATGAACATGTTGGCGGGGGAGGCACTGCTGGCCGGAAGCCCCTCAAGTCGGGTATGAAGGAG  
CTGGCCGTGTTCCGGGAGAAGGTCACTGAGCAGCACCGGCAGATGGGCAAGGGTGGCAAGCATCACCTTGGCCTG  
GAGGAGCCCAAGAAGCTGCGACCACCCCTGCCAGGACTCCCTGCCAACAGGAAGTGGACCAGGTCTTGGAGCGG  
ATCTCCACCATGCGCCTTCCGGATGAGCGGGGCCCTCTGGAGCACCTCTACTCCCTGCACATCCCCAACTGTGAC  
AAGCATGGCCGTGTAACCTCAAACAGTGCAAGATGTCTCTGAACGGGCAGCGTGGGGAGTGTGCTGGTGTGTGAAC  
CCCAACACCGGAAGCTGATCCAGGGAGCCCCCACCATCCGGGGGACCCCGAGTGTATCTCTTCTACAATGAG  
CAGCAGGAGGCTCGCGGGGTGCACACCCAGCGGATGCAGTAGACCGCAGCCAGCCGGTGCCTGGCGCCCCTGCCC  
CCGCCCCCTCTCCAAACACCGGCAGAAAACGGAGAGTGCTTGGGTGGTGGGTGCTGGAGGATTTCCAGTTCTGA  
CACACGTATTTATATTTGGAAAGAGACCAGCACCGAGCTCGGCACCTCCCCGGCCTCTCTCTTCCAGCTGCAGA  
TGCCACACCTGCTCCTTCTTTGCTTTCCCCGGGGGAGGAAGGGGTTGTGGTGGGGAGCTGGGGTACAGGTTTGG  
GGAGGGGAAGAGAAATTTTATTTTGAACCCCTGTGTCCCTTTTGATAAGATTAAAGGAAGGAAAAGT

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**FIGURE 965**

AGCGGATCTCCACCATGCGCCTTCCGGATGAGCGGGGCCCTCTGGAGCACCTCTACTCCCTGCACATCCCCAACT  
GTGACAAGCATGGCCTGTACAACCTCAAACAGTGCTGGTGTGTGAACCCCAACACCGGGAAGCTGATCCAGGGAG  
CCCCACCATCCGGGGGGACCCCGAGTGTATCTCTTCTACAATGAGCAGCAGGAGGCTCGCGGGGTGCACACCC  
AGCGGATGCAGTAGACCGCAGCCAGCCGGTGCCTGGCGCCCTGCCCCCGCCCTCTCCAAACACCGGCAGAAA  
ACGGAGAGTGCTTGGGTGGTGGGTGCTGGAGGATTTTCCAGTTCTGACACACGTATTTATATTGGAAAGAGACC  
AGCACCGAGCTCGGCACCTCCCCGGCCTCTCTCTTCCCAGCTGCAGATGCCACACCTGCTCCTTCTTGCTTTCCC  
CGGGGAGGAAGGGGTTGTGGTTCGGGAGCTGGGGTACAGGTTTGGGGAGGGGAAGAGAAATTTTATTTTTG  
AACCCTGTGTCCCTTTGCATAAGATTAAAGGAAGG

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**FIGURE 966**

CTTCCTTTCTGGGCTCGGACCTAGGTCGCGGCGACATGGCCAAACGTACCAAGAAAGTCGGGATCGTCGGTAAAT  
ACGGGACCCGCTATGGGGCCTCCCTCCGGAAAATGGTGAAGAAAATTGAAATCAGCCAGCACGCCAAGTACACTT  
GCTCTTTCTGTGGCAAACCAAGATGAAGAGACGAGCTGTGGGGATCTGGCACTGTGGTTCCTGCATGAAGACAG  
TGGCTGGCGGTGCCTGGACGTACAATACCCTTCCGCTGTACGGTAAAGTCCGCCATCAGAAGACTGAAGGAGT  
TGAAAGACCAGTAGACGCTCCTCTACTCTTTGAGACATCACTGGCCTATAATAAATGGGTTAATTTATGTAACAA  
AAAAAAAAAAAAAAAAA

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**FIGURE 967**

MAKRIKKVGIVGKYGTRYGASLRKMKVKKIEISQHAKYTCFSGKTKMKRRAVGIWHCGSCMKTVAGGAWTYNTTS  
AVTVKSAIRRLKELKDQ

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**FIGURE 968**

CCCCCGCCACCTCACACACCCCATCCGGGAGACCCACGTGCAGCTGGGCCCCGGGCTGGCGCCGCACCTCGGGG  
TCTGCGCGTCTCCCCGGCGCGTTCCGGGCGCAGCCCCACGACACGGACCCCTGGCGGGGCGGCATCCGAGAAGTC  
GCAGGCGGAGAGGGGGCGTCTTGGAGGCCGGGCGGGGACGCTGCGGCCCGCGGCCACACAAAGGAGGCGGCGG  
GAAGGCGGGGCAAGGCGGGCCGGGGGCGGGGCGGCAGGAAGGGGCGGGGGCCCGCGCGGCGCCGCCGATAAAGC  
CCCCGCGCGCGCGGCAGCCAGCTTGCCTGTGGGGCTGCCCGGGCTGCGCGGCGTCTGCAGGCGCCACCGCTGCC  
TCTTTCGGGCTGTGACCTCCTCGCCGCCCGCGCTTGGCTGCGTCTCCGACTCCCCGCGCCGCCGAGACCAGGC  
TCCCGTCCGGTTGCGGCCGCACCGCCCTCCGCGGCCGCCCTTGGGGATCCAGCGAGCGCGGTCTCTTTGGTG  
GAAGGAACCATGAACTGGCATCTCCCCCTCTTCTCTTGGCCTCTGTGACGCTGCCCTTCCATCTGCTCCCACTTC  
AATCCTCTGTCTCTCGAGGAAGTGGCTCCAACACGGGGATCCAGGTTTTCAATCAGATTGTGAAGTCGAGGCCT  
CATGACAACATCGTGATCTCTCCCCATGGGATTGCGTGGTCTTGGGGATGCTTCAGCTGGGGGCGGACGGCAGG  
ACCAAGAAGCAGCTCGCCATGGTGATGAGATACGGCGTAAATGGAGTTGGTAAATATTAAAGAAGATCAACAAG  
GCCATCGTCTCCAAGAAGAATAAAGACATTGTGACAGTGGCTAACGCCGTGTTTGTAAAGAATGCCTCTGAAATT  
GAAGTGCCTTTTTGTACAGGAACAAAGATGTGTTCCAGTGTGAGGTCCGGAATGTGAACCTTTGAGGATCCAGCC  
TCTGCCTGTGATTCCATCAATGCATGGGTAAATAAACCAGGGATATGATTGACAATCTGCTGTCCCCAGAT  
CTTATTGATGGTGTGCTCACCAGACTGGTCTCGTCAACGCAGTGTATTTCAAGGGTCTGTGGAATCACGGTTC  
CAACCCGAGAACACAAAGAAACGCATTTTCGTGGCAGCCGACGGGAAATCCTATCAAGTGCCAATGCTGGCCCAG  
CTCTCCGTGTTCCGGTGTGGGTGCGACAAGTGCCCCCAATGATTATGGTACAACCTTCATTGAAGTGCCTTACCAC  
GGGGAAGCATCAGCATGCTGATTGCACTGCCGACTGAGAGCTCCACTCCGCTGTCTGCCATCATCCACACATC  
AGCACCAAGACCATAGACAGCTGGATGAGCATCATGGTGCCCAAGAGGGTGCAGGTGATCCTGCCCAAGTTCACA  
GCTGTAGCACAAACAGATTGAAGGAGCCGCTGAAAGTTCTTGGCATTACTGACATGTTTGATTTCATCAAAGGCA  
AATTTTGCAAAAATAACAAGGTGAGAAAACCTCCATGTTTCTCATATCTTGCAAAAAGCAAAAATTGAAGTCAGT  
GAAGATGGAACCAAAGCTTCAGCAGCAACAACCTGCAATTCTCATTGCAAGATCATCGCCTCCCTGGTTTATAGTA  
GACAGACCTTTTCTGTTTTTCATCCGACATAATCCTACAGGTGCTGTGTTATTCATGGGGCAGATAAAACAAACC  
TGAAGAGTATACAAAAGAAACCATGCAAAGCAACGACTACTTTGCTACGAAGAAAGACTCCTTTCTGCACTTTT  
CATAGTTCTGTAAATATTTTTGTACATCGCTTCTTTTTCAAACTAGTTCTTAGGAACAGACTCGATGCAAGTG  
TTTCTGTTCTGGGAGGTATTGGAGGGAAAAACAAGCAGGATGGCTGGAACACTGTACTGAGGAATGAATAGAAA  
GGCTTCCAGATGTCTAAAGATTCTTTAACTACTGAACTGTTACCTAGGTAAACAACCTGTTGAGTATTTGCT  
GTTTGTCAGTTCAGGAATTTTTGTTTTGTTTTGTCTATATGTGCGGCTTTTCAGAAGAAATTTAATCAGTGTGA  
CAGAAAAAAAATGTTTTATGGTAGCTTTTACTTTTTATGAAAAAAAATTTATTCCTTTTAAATCTTTTCCC  
CCATCCCCCTCCAAAGTCTTGATAGCAAGCGTTATTTGGTGGTAGAAACGGTGAAATCTCTAGCCTCTTTGTGT  
TTTTGTGTTGTTGTTGTTGTTGTTTATATAATGCATGTATTCACTAAAATAAAATTTAAAAAATCCTGTCTT  
GCTAGACAAGGTTGCTGTTGTGCAGTGTGCTGTCACTACTGGTCTGTACTCCTTGGATTGCAATTTTGTATTT  
TGTACAAAGTAAAAATAAACTGTTATGAGTAGT

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**FIGURE 969**

MNWHLPFLFLLASVTLPSICSHFNPLSLEELGSNTGIQVFNQIVKSRPHDNIVISPHGIASVLGMLQLGADGRTKK  
QLAMVMRYGVNGVGKILKKINKAIVSKKNKDIVTVANAVFVKNASEIEVPFVTRNKDVFQCEVRNVNFEDPASAC  
DSINAWVKNETRDMIDNLLSPDLIDGVLTRLVLVNAVYFKGLWKS RFQ PENTKKRTFVAADGKSYQVPMLAQLSV  
FRCGSTAPNDLWYNFIELPYHGESISMLIALPTESSTPLSAIIPHISTKTIDSWMSIMVPEKRVQVILPKFTAVA  
QTDLKEPLKVLGITDMFDSSKANFAKITRSENLVSHILQKAKIEVSEDGTKASAATTAILIARSSPPWFIVDRE  
FLFFIRHNPTGAVLFMGQINKP

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**FIGURE 970**

ATGCGTGCTGAAAAGAGAAAAAGAATGCCCCAGAGGAGGTCAGCAGGCTTAAAAGTATTCTCAAAGTAGACGAT  
GACGTTTTAATGAAAGATGTTCAAGAGATAGCAACTGTGGTGGTACCCAAACCCAAACATTGCCAAGAGAAAATG  
CAATGTGAGGTTAAAGATGAAAAAGATGACATGAAAAATGGAGACTGATATTAAGAGAAACAAAAAGACTCTTCTA  
GACCAGCATGGACAGTACCCAATATGGATGAACCAAGGCAAAGAAAAAGGCTAAAGGCAAAGCGAGAGAAAAGA  
AAGGAGAAAAACAAAGCAAAAGCAGTGAAAGTGGCAAAGGGTTTGGCCTGTAGTATTGTTTCCATAATAGTCCAT  
TTCGCAGAAATAAGAAGGAGAATAAACTTAGAGAAAAAGAGGAGGCCAAAAGGGGCAAGGTAGTGGCTACTTGC  
AGAAACCTGAAAAATATGTGTGACAAAGCCGCCATAATAAGTGGCAGCCGAGCTGCAGCAGCCCGTCTCAGGGGC  
ACCGCAGCCTCCCCGGGCCCTACGGCCGCCGCCAGCAGGATGGCTGGAATGGCCTTAGTCATGAGGCTTTTAGA  
ATTGTTTCAAGGCAGGATTATGCGTCAGAAGCAATCAATGGAGCAGCTGGTGGTGTATTATTTGGGTACTACCAAC  
TCCTGTGTGGCAGTTATGGAAGGTAAACAAGCAAGGTGCTGGAGAATGCCGAAGGTGCCAGAAGTACCCCTTCA  
GTTGTGGCCTTTACAGCAGATGTACAGAAAGACATTAAAAATATTCCCTTTAAAATTGTCTGTGCCTCCAATGGT  
GATGCCTGGGTTGAGGCTCATGGGAACTGTATTCTCCAAGTCAGATCGGAGCATTGTGTGATGAAGATGAAA  
GAGACTGCAGAAAATTACTTGGGGCACACAGCAAAAAATGCTGTGATCGCAGTCCCAGCTTATTTCAATGACTTG  
CAGAGGCAGGCCACTAAAGATGCTGGCCAGATATCTGGACTGAATGTGCTTCGGGTGATTAATGAACCCACAGCT  
GCTGCTCTTGCCATATGGTCTAGACAAATCAAAAGACAAAGTCATTGCTGTATATGATTTAGGTGGTGGAACTTTT  
GATATTTCTATCCTGGAATTTAGAAAGGAGTATTCGAGGTGAAATCCACAAATGGGGACACTTTCTTAGGTGGG  
GAAGACTTTGACCAGGCCTTGCTACAGCACATTGTGAAGGAGTTCAAGAGAGAGACGGGGGTGATTTGACCAAA  
GACAACGTGGCATTTCAGAGGGTGTGGGAAGCTGCTGAAAAGGCTAAATGTGAAGTCTCCTCATCTGTGCAGACT  
GACATCAATTTGCCCTATCTTACAATGGATTCTTCTGGACCCAAGCATTGGAATACAAAGTTGACCCATGCTCAA  
TTTGAAGGGATTGCTACTGATCTAATCAGGAGGACTATCGCTCCATGCCAAAAAGCTATGCAAGATGCAGAAATC  
AGCAAGAGTGATATAGGAGAAGTGATTCTTGTGGAGCCCCCAAGTAAAGCTGTCAATCCTGATGAGGCTGTGGCC  
ATTGGAGCTGCCATTGAGGAGATGTGTTGGCCGGCGATGTACAGATGTGCTGCTCCTTGATGTCATTCCCTTG  
TCTCTGGGTATTGAACTCTGCGAGGTGTCTTTACCAAACCTTATTAATAGGAATACCACTATTTCAACCAAGAAG  
AGCCAGGTATTTCTCACTGCTGCTGATGGGCAGACACAAGTGGAAATTAAAGTGTGTCAGGGTGAGAGAGAGATG  
GCTGGAGACAACAACTCCTTGACAGTTTACTTTGATTGGAATTCACCAGCCCCCTCGTGGAGTTCTCTCAGATC  
AAAGTTACATTTGACATTGATGCCAATGGGATCATACATGTTTCAGCTAAAGATAAAGGCACAGGACATGAGCAG  
CAGATTGTAATCCAGTCTTCTGGTGGGTTAAGCAAAGATGATGTTGAAAATATGGTTAAAAATGCAGAGAAATAT  
GCTAAGGAAGACCAGCGAAGGAAGGAATGA



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**FIGURE 971**

CGGAGCTGTCCATCAGCACCAAAGGCCGCGGGCGGGCTCAGGGCATGGGGCCGCGGTTCCTGGGGCGGGCCGAGCC  
CCGGCTCCTGCGCCTTCCCCCTTCTCAGGCCAGCCCCAGATTCCCGGACGCCGCGGGACTGGAGTGCCAGCCGGT  
GTTGGACGTGGAGCGGCGCCGCCACCGCGCCGACACCATTCTCTCCGGCCAGCAGCCCCCTTCTCGCACGACG  
GACTTTCCCTGGACCCCACTCAGTTGGAGCCTCTGGCGCCCCGAACCCCGGCCCTCGGGCCTCTGCACAGCCT  
CTTTCACTCAGAAGCTCAGGTGCGCTCCAGCCCAGCACTATGCCGGGACTGTGGCAAACTGCGGTTCCAGCTG  
CTGCCCCCTGAGCCAGATGATGCCTTCTGGGGTGCACCTTGTGAACAGCCCCCTGGAGCGCAGGTACCAGGCACTG  
CCGGCCCTCGTCTGCATCATGTGCTGTTTGTGGAGTCGTCTACTGCTTCTTCGGTTACCGCTGCTTCAAGGCA  
GTGCTCTTTCTACTGGGTTGCTGTTTGGCTCGGTGGTCATCTTCTCCTCTGCTACCGAGAGCGGGTGCTAGAG  
ACACAGCTGAGTGCTGGGGCGAGCGCGGGCATCGCTCTGGGCATCGGGCTGCTCTGCGGGCTGGTGGCCATGCTA  
GTGCGCAGCGTGGGCCTTCTCTGGTGGGGCTGCTGCTCGGCCTGCTGCTCGCAGCTGCTGCCCTGCTGGGCTCC  
GCACCTACTACCAGCCAGGCTCCGTGTGGGGTCCACTGGGGCTGTGCTGGGGGGCGGCCTGCTCTGTGCCCTG  
CTCACTCTGCGCTGGCCCCGCCACTCACCACCTGGCCACCGCCGTGACTGGTGCTGCGCTGATCGCCACTGCC  
GCTGACTACTTCGCCGAGCTGCTACTGCTGGGGCGCTACGTGGTGGAGCGACTCCGGGCTGCTCCTGTGCCCCCA  
CTCTGCTGGCGAAGCTGGGCCCTGCTGGCACTCTGGCCCCCTGCTCAGCCTGATGGGCGTTCTGGTGCAGTGGAGG  
GTGACAGCTGAGGGGACTCCACACGGAAGTGGTCATCAGCCGGCAGCGCCGACGCGTGCAACTGATGCGGATT  
CGGCAGCAGGAAGATCGCAAGGAGAAAAGGCGGAAAAGAGACCTCCTCGGGCTCCCCCTCAGAGGTCCCCGGGCT  
CCTCCCAGGCCTGGGCCACCAGACCCTGCTTATCGGCGCAGGCCAGTGCCCATCAAACGCTTCAATGGAGACGTC  
CTCTCCCCGAGCTATATCCAGAGCTTCCGAGACCGGCAGACCGGGAGCTCCCTGAGCTCCTTCATGGCCTCACCC  
ACAGATGCGGACTATGAGTATGGGTCCCGGGGACCTCTGACAGCCTGCTCAGGCCCCCAGTGCGGGTATAGCCA  
TATCTGTCTGTCTAGACTCTGCAGTCACCAGCTCTGCCAGCTCGAGGAGGCTGCTAGGCTGCCACTCAGCCTCC  
TGGCTTTGGCTGTCCCTCTCCCCAGCCTGGAGAGGGCTGGCCTGGTCACTAGAAGGGAGGATTGTCTCAGGCGAG  
TCTTGGCCTGAGAGGAAAGCCCCCTCCCAAGCTCCCAAGAGGCTCCTGAGGAACTCGGGGTGTGAACCCATTGG  
GGTGTGCTCAGGGTTGTGAGTGTGTTGCCCGTGTGCTGTGTGTATGTGTGTGGGGGTGGGCAGGCTTGGAGGGG  
ACGCTGGGACCCTTGCCCTAGATTTCTGACTGGTAGGGTTTCTCCAGGCTCAGCCCCACCTCTTCACTCCCTGCC  
AAGGTCCCATGGGCCACCTCCTGCATGTCTCCGCGGAGGGGCTACCTTCCTTCCCATCGCCCTGCCTCGCAGCCA  
GACTCATCTAAGGGTCTTGTCTTGTCTATGGGGCAAACCTGTAGCATCCCTCACCTGGTCCCTGGCCTCTGT  
AAAGCCACCAGCCTGAGGGCAGTGGCAGGAGATGGGGGTGGGGGGTGCTGCTCTGGGCTGGGTGGGAAGGGAG  
TTGGGGAGGGGTTTAAATGCACGGTGCATGTCTGGTGTCTGTGTCATGCCAACCTAGACACCTCATGCTTCTGTCTC  
CCCCACCCACTCTGTTTTACATCTTTTATAAATGTGCCAACTGTGTGGCCTCTGCCA

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**FIGURE 972**

MPGTVATLRFQLLPPEPDDAFWGAPCEQPLERRYQALPALVCIMCCLEFGVVYCFFGYRCFKAVLFLTGLLFGSVV  
IFLLCYRERVLETQLSAGASAGIALGIGLLCGLVAMLVRSVGLFLVGLLLGLLLAALLGSAPYYQPGSVWGPL  
GLLLGGGLLCALLTLRWPRPLTTLATAVTGAALIATAADYFAELLLLGRYVVERLRAAPVPPLCWRSWALLALWP  
LLSLMGVLVQWRVTAEGDSHTEVVISRQRRRVQLMRIQQEDRKEKRKKRPPRAPLRGPRAPPRPGPPDPAYRR  
RPVPIKRFNGDVLSPSYIQSFRDRQTGSSLSSFMASPTDADYEYGSRGPLTACSGPPVRV

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**FIGURE 973**

CGGAGCACATGCTGAGCGGAGCGGCTGGGGCTGCGCGGCGTGCGGAGCAGCGCTCGCTCCCTCGCTCACTCGCT  
CGCTCGCAGGGACACACGCAGGGGCTGACAGCTGTGCTGGTGCTGATAAGGGAAGCCACAAGGAGACGATCGAGG  
AGAGAGACAAGCGGCAGCAGAGGCAGCAGCGGCAGAGGCAGCACCAGGGCTGCGGAGCTGCTGGGAGTGGGAGTG  
ACTCCCCACCTCGGGCCCCACCCTGTCCCTGTCTCTTCCCGCTTGCCTGAGTTTAGAAGAGCAGCCGCTGC  
CACCCTGCCACTCGGGAGGGCACCAGGGCTGCTGGCTAGGGAGGGACAGGGCAGGAGGCTCTGGCCAGTCCCA  
GCAGCCGGGGACAGATGCCGATCGAGATTGTGTGCAAAATCAAATTTGCTGAGGAGGATGCGAAACCCAAGGAGA  
AGGAGGCAGGGGATGAGCAGAGCCTCCTCGGGGCTGTTGCCCTGAGCAGCCCCCGAGACCTGGCCACCTTTG  
CCAGCACCAGCACCCTGCATGGACTGGGCCGGGCTGTGGCCAGGCCCCACGGACTGCGCAGAACCCTGTGGG  
CACTGGCCCTACTCACCTCGCTGGCTGCCTTCTGTACCAGGCGGCTGGCCTGGCCCGGGGCTACCTGACCCGGC  
CTCACTGGTGGCAATGGACCCCGCTGCCCCAGCCCCAGTGGCGGGCTTCCCGGCTGTACCCCTCTGCAATATCA  
ACCGCTTCCGGCATTCCGGCACTCAGCGATGCCGACATCTTCCACCTGGCCAATCTGACAGGGCTGCCCCCAAAG  
ACCGGATGGGCACCGTGGCGCTGGCTGCGCTACCCAGAGCCTGACATGGTAGACATCCTCAACCGCACTGGCC  
ACCAGCTCGCCGACATGCTTAAGAGTGCAACTTCAGTGGGCATCACTGCTCCGCCAGCACTTCTCTGTGGTCT  
ATACTCGCTATGGGAAGTGTTACACCTTCAACGCGGACCCGCGGAGCTCGCTGCCAGCCGGGCAGGGGGCATGG  
GCAGTGGCCTGGAGATCATGCTGGACATCCAGCAGGAGGAGTACCTGCCCATCTGGAGGGAGACAAATGAGACGT  
CGTTTGAGGCAGGTATTGCGGTGCAGATCCACAGCCAGGAGGAGCCGCCCTACATCCACCAGCTGGGGTTCCGGG  
TGCCCCAGGCTTCCAGACCTTTGTGTCTGCCAGGAACAGCGGCTGACCTACCTGCCCCAGCCCTGGGGCAACT  
GCCGCGCAGAGAGTGAGCTCAGGGAGCCTGAGCTTACAGGGCTACTCGGCCTACAGTGTGTCTGCCTGCCGGCTGC  
GCTGTGAAAAGGAGGCCGTGCTTACGCGCTGCCACTGCCGATGGTGCACATGCCAGGCAATGAGACCATCTGCC  
CACCAAATATCTACATCGAGTGTGCAGACCACACACTGGACTCCCTGGGTGGGGGCCCTGAGGGCCCCGTGCTTCT  
GCCCCACCCCTGCAACCTGACACGCTATGGGAAAGAGATCTCCATGGTCAGGATCCCCAACAGGGGCTCAGCCC  
GGTACCTGGCGAGGAAGTACAACCGCAACGAGACCTACATACGGGAGAACTTCTTGGTCTTAGATGTCTTCTTTG  
AGGCCCTGACCTCTGAAGCCATGGAGCAGCGAGCAGCCTATGGCCTGTGAGCCCTGCTGGGAGACCTCGGGGGAC  
AGATGGGCCTGTTCAATTGGGGCCAGCATCCTCACGTTGCTGGAGATCCTCGACTACATCTATGAGGTGTCTGGG  
ATCGACTGAAGCGGTATGGAGGCGTCCCAAGACCCCTGCGGACCTCCACTGGGGGCATCTCCACTTTGGGGC  
TTCAGGAGCTGAAGGAACAGAGTCCCTGCCCCAGCCTGGGCCGAGCGGAGGGTGGGGGGGTGAGCAGTCTGCTCC  
CCAATCACCACCACCCCCACGGTCCCCAGGAGGTCTCTTTGAAGATTTTGCTTGCTAGGACGGTGCTGTGACTG  
AAAGGACCCAGGAGTCTGGGACCCCTCCTGGGATCCCCAGCACATTCTCCTGCTCCTGGGAGAGGCCTGGGGGCG  
GTGCTCACTGGGAGGGCCAGGACTCAGTTCTGTCTCATCCTCCCTGCCCTGATGTCAGCTGCTTTGCACAAA  
GGTCTTCTTGTCCACACCCCTTATCCCCAGGCTGGTGGCCCGGAGGGCTGGAGACCAGGCCATGGGCCCTCAC  
GGAGAGGAAGGAAGGAAGGAGAGGGAGGGGGAGGATAGAGCCCATCCAGCCGGGAGGGGGAGCCCTCTGTAC  
ATTTGTAAATATTTAGGGAAAGCCGGGTGGGGGGAGGGGATACAGATGTAGAAGGTGGGTAGGGCTACAGGGGTG  
GGTGATTTAGGGACAGCCAGGGTCCCAGCCCCAATGTCAGCAGGATAGGGAGAGCCCAGGACTCAGGAGTGCTG  
GGCTGGTCTACTTCTGCCCCCTCTCCAGGCCAGCTCCCTCTTGGCAGGGGGAGAGGATGGCCAGCAGGCCCT  
GGCCAGCTCCAGTTCCCCCTGCACCAGCCCCACCCCTAGAGTCCCTTCTATAGGGAGGGGGCAGGAGACCTTC  
CAGACTTCGGCTGAGCTTGGAGGGTGGGAAGGGAGCCTTCTCAGTCTCTCTCCCTCCAGTCTGATTTTATAAAG  
TGCTGACGAG

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**FIGURE 974**

MPIEIVCKIKFAEEDAKPKEKEAGDEQSLLGAVAPGAAPRDLATFASTSTLHGLGRACGPGPHGLRRTLWALALL  
TSLAFLYQAAGLARGYLTRPHLVAMDPAAPAPVAGFPVTLNINRFRHSALSDADIFHLANLTGLPPKDRDGH  
RAAGLRYPEPDMVDILNRTGHQLADMLKSCNFSGHHCSASNFSVVYTRYGKCYTFNADPRSSLPSRAGGMGSGLE  
IMLDIQEEYLPWRETNETSFEAGIRVQIHSQEEPPYIHQLGFGVSPGFQTFVSCQEQRLTYLPQPWGNCRAES  
ELREPELQGSAYSVSACRLRCEKEAVLQRCCHRMVHMPGNETICPPNIYIECADHTLDSLGGGPEGPCFCPTPC  
NLTRYGKEISMVRIPNRGSARYLARKYNRNETYIRENFLVLDVFFEALTSEAMEQRAAYGLSALLGDLGGQMGLF  
IGASILTLLLEILDYIYEVSWDRLEKRVWRRPKTPLRTSTGGISTLGLQELKEQSPCPSLGRAEGGGVSSLLPNHHH  
PHGPPGGLFEDFAC

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**FIGURE 975**

CCTCGCCGCATCCACTCTCCGGCCGGCCGCCTGCCCGCCGCCTCCTCCGTGCGCCCGCCAGCCTCGCCCGCGCCG  
TCACCATGAGCCAGGCCTACTCGTCCAGCCAGCGCGTGTCTCTACCGCCGCACCTTCGGCGGGGCCCCGGGCT  
TCCCACTCGGCTCCCCGCTGAGTTCGCCCCGTGTTCGGCGGGCGGGTTTCGGCTCTAAGGGCTCCTCCAGCTCGG  
TGACGTCCCGCGTGTACCAGGTGTGCGGCACGTCGGGCGGGGCGGGGGCCTGGGGTCGCTGCGGGCCAGCCGGC  
TGGGGACCACCCGCACGCCCTCCTCTACGGCGCAGGCGAGCTGCTGGACTTCTCACTGGCCGACGCGGTGAACC  
AGGAGTTTCTGACCACGCGCACCAACGAGAAGGTGGAGCTGCAGGAGCTCAATGACCGCTTCGCCAACTACATCG  
AGAAGGTCCGCTTCTGGAGCAGCAGAACGCGCGCTCGCCGCCGAAGTGAACCGGCTCAAGGGCCGCGAGCCGA  
CGCGAGTGGCCGAGCTCTACGAGGAGGAGCTGCGGGAGCTGCGGCGCCAGGTGGAGGTGCTCACTAACCAGCGCG  
CGCGCGTCGACGTGAGCGCGACAACCTGCTCGACGACCTGCAGCGGCTCAAGGCCAAGCTGCAGGAGGAGATTCT  
AGTTGAAGGAAGAAGCAGAGAACAATTTGGCTGCGTTCCGAGCGGACGTGGATGCAGCTACTCTAGCTCGCATTG  
ACCTGGAGCGCAGAATTGAATCTCTCAACGAGGAGATCGCGTTTCTTAAGAAAGTGCATGAAGAGGAGATCCGTG  
AGTTGCAGGCTCAGCTTCAGGAACAGCAGGTCCAGGTGGAGATGGACATGTCTAAGCCAGACCTCACTGCCGCC  
TCAGGGACATCCGGGCTCAGTATGAGACCATCGCGGCTAAGAACATTTCTGAAGCTGAGGAGTGGTACAAGTCGA  
AGGTGTCAGACCTGACCCAGGCAGCCAACAAGAACAACGACGCCCTGCGCCAGGCCAAGCAGGAGATGATGGAAT  
ACCGACACCAGATCCAGTCTACACCTGCGAGATTGACGCCCTGAAGGGCACTAACGATTCCCTGATGAGGCAGA  
TGCGGGAATTGGAGGACCGATTTGCCAGTGAGGCCAGTGGCTACCAGGACAACATTGCGCGCCTGGAGGAGGAAA  
TCCGGCACCTCAAGGATGAGATGGCCCCCATCTGCGCGAGTACCAGGACCTGCTCAACGTGAAGATGGCCCTGG  
ATGTGGAGATTGCCACCTACCGGAAGCTGCTGGAGGGAGAGGAGAGCCGGATCAATCTCCCCATCCAGACCTACT  
CTGCCCTCAACTCCGAGAAACCAGCCCTGAGCAAAGGGGTTCTGAGGTCCATACCAAGAAGACGGTGATGATCA  
AGACCATCGAGACACGGGATGGGGAGGTGCTCAGTGAGGCCACACAGCAGCAGCATGAAGTGCTCTTAAAGACAGA  
GACCTCTGCCACCAGAGACCGTCTCACCCCTGTCTCACTGCTCCCTGAAGCCAGCCTTCTTCCATCCCAGGA  
CACCACACCCAGCCTCAGTCTCTCCCTCACAGCCTCTGACCCCTCTCACTGGCCATCCCTCGTGGTCCCCAACA  
GCGACATAGCCCATCCCTGCCTGGTCACAGGGCATGCCCGGCCACCTCTGCGGACCCAGCTGTGAGCCTTGGC  
TGTTGGCAGTGAGTGAGCCTGGCTCTTGCTGCTGGATGGAGCCCAGGCGGGAGCGGTGGCCCTGTCCCTCCCACCT  
CTGTGACCTCAGGCACTAGCCTTTGGCTCTGGAGACAGCCCCAGAGCAGGGTGTGGGATACTGCAGGGCCAGGA  
CTGAGCCCCGCGACCTCCCCAGCCCTAGCCCAGGAGAGAGAAAGCCAGGCAGGTAGCCAGGGGGACTAGCCCC  
TGTGGAGACTGGGGGGCTTGAAATTGTCCCCGTGGTCTCTTACTTTCTTTCCCAGCCCAGGGTGGACTTAGAA  
AGCAGGGGCTACAAGAGGGAATCCCCGAAGGTGCTGGAGGTGGGAGCAGGAGATTGAGAAGGAGAGAAAGTGGGT  
GAGATGCTGGAGAAGAGAGGAGAGGAGAGAGGAGAGCGGTCTCAGGCTGGTGGGAGGGGCGCCACCTCCCC  
ACGCCCTCCCTCCCCTGCTGCAGGGGCTCTGGAGAGAAACAATAAAGAGATTACACACAAGCC

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**FIGURE 976**

MSQAYSSSQRVSSYRRTFGGAPGFPLGSPLSSPVFPRAFGSGKSSSSVTSRVYQVSRTSGGAGGLGSLRASRLG  
TTRTPSSYGAGELLDFSLADAVNQEFLLTTRTNEKVELQELNDRFANYIEKVRFLEQQNAALAAEVNRLKGREPTR  
VAELYEEELRELRRQVEVLTNQRARVDVERDNLLDDLQRLKAKLQEEIQLKEEAENNLAAFRADVDAATLARIDL  
ERRIESLNEEIAFLKKVHEEEIRELQAQLQEQQVQVEMDMSPDLTAALRDIRAQYETIAAKNISEAEEWYKSKV  
SDLTQAANKNNDALRQAKQEMMEYRHQIQSYTCEIDALKGINDSLMRQMRELEDRFASEASGYQDNIRLEEEIR  
HLKDEMARHLREYQDLLNVKMALDVEIATYRKLEGEESRINLP IQTYSALNFRETSPEQRGSEVHTKKTVMIKT  
IETRDGEVVSEATQQQHEVL

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**FIGURE 977**

GCACGAGGGTGATGAAGGCCTACGAGTGCGGCGCGGCCTGAAGGGGCACGCGGGGGACCTGCAAAGCTAGTGAGG  
GGCGGGGCAGGCGGCGCGGTGGGGGCGGGCCGAGCCCCGAGGGCCAGATGAGCGGACACAGCCCCACGCGCGGGGC  
CATGCAGGTGGCCATGAACGGTAAGGCCCGCAAAGAGGCGGTGCAGACTGCGGCTAAGGAACCTCTCAAGTTCGT  
GAACCGGAGTCCCTCTCCTTTCCATGCTGTGGCTGAATGCCGCAACCGCCTTCTCCAGGCTGGCTTCAGTGAAC  
CAAGGAGACTGAGAAATGGAATATTAAGCCCCGAGAGCAAGTACTTCATGACCAGGAACCTCTCCACCATCATAGC  
TTTTGCTGTAGGGGGCCAGTACGTTCCCTGGCAATGGCTTCAGCCTCATCGGGGCCACACGGACAGCCCCGCTCCT  
CCGGGTGAAACGTCGGTCTCGCCGAGCCAGGTGGGCTTCCAGCAAGTCGGTGTGGAGACCTATGGTGGTGGGAT  
CTGGAGCACCTGGTTTGACCGTGACCTGACTCTGGCTGGACGCGTCATTGTCAAGTGCCCTACCTCAGGTTCGGCT  
GGAGCAGCAGCTGGTGCACGTGGAGCGGCCATTCTTCGCATCCACACCTGGCCATCCATCTGCAGCGAAATAT  
CAACGAGAACTTTGGGCCCCAACACAGAGATGCATCTAGTCCCCATTCTTGCCACAGCCATCCAGGAGGAGCTGGA  
GAAGGGGACTCCTGAGCCAGGGCCTCTCAATGCTGTGGATGAGCGGCACCATTCGGTCTCATGTCCCTGCTCTG  
TGCCCATCTGGGGCTGAGCCCCAAGGACATAGTGGAGATGGAGCTCTGCCTTGACAGACCCAGCCTGCGGTCTT  
GGGTGGTGCCTATGATGAGTTCATCTTTGCTCCTCGGCTGGACAATCTGCACAGCTGCTTCTGTGCCCTGCAGGC  
CTTGATAGATTCTGTGCAGGCCTGGCTCCCTGGCCACAGAGCCTCACGTGCGCATGGTCACACTCTATGACAA  
CGAAGAGGTGGGGTCTGAGAGTGCACAGGGAGCACAGTCACTGCTGACAGAGCTGGTGTGCGGCGGATCTCAGC  
CTCGTGCCAGCACCCGACAGCCTTCGAGGAAGCCATACCCAAGTCTTCATGATCAGCGCAGACATGGCCCATGC  
TGTGCATCCCAACTACCTGGACAAGCATGAGGAGAACCACGGCCTTTATTCCACAAGGGCCCCGTGATCAAGGT  
GAACAGCAAGCAACGCTATGCTTCAAACGCGGTGTCAGAGGCCCTGATCCGAGAGGTGGCCAACAAAGTCAAGGT  
CCCCCTGCAGGATCTCATGGTCCGGAATGACACCCCTGTGGAACCACCATTGGACCTATCTTGGCTTCTCGGCT  
GGGGCTGCGGGTGCTGGATTTAGGCAGCCCCAACTGGCCATGCACTCTATCCGGGAGATGGCCTGCACCACAGG  
AGTCCTCCAGACCTCACCTCTTCAAGGGCTTCTTTGAGCTGTTCCCTTCTCTAAGCCATAATCTCTTAGTGGA  
TTGAGCCCTCTTGAAAGACTTCTCTGCCATCCCTTTGCACCTGAGAGGGGAAGTTCTCAGCTGAGCTGAAGCTG  
GATTATTAAAGTGGATTGTCACTCAGAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 978**

MQVAMNGKARKEAVQTAAKELLKFVNRSPSPFHAVAECRNRLQAGFSELKETEKWNIKPESKYFMTRNSSTIIA  
FAVGGQYVPGNGFSLIGAHTDSPCLRVKRRSRRSQVGFQQVGVETYGGGIWSTWFDRLTLAGRVIVKCPTSGRL  
EQQLVHVERPILRIPHLAIHLQRNINENFGPNTEMHLVPILATAIQEELEKGTPEPGPLNAVDERHHSVLMSLLC  
AHLGLSPKDIVEMELCLADTQPAVLGGAYDEFIFAPRLDNLHSCFCALQALIDSCAGPGSLATEPHVRMVTLYDN  
EEVGSESAQGAQSLLTELVLRRISASCQHPTAFEEAIPKSFMISADMAHAVHPNYLDKHEENHRPLFHKGPVIKV  
NSKQRYASNAVSEALIREVANKVKVPLQDLMVRNDTPCGTTIGPILASRLGLRVLDLGSPQLAMHSIREMACTTG  
VLQTLTLFKGFFELFPSLSHNLLVD



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**FIGURE 979**

CTTTGCATTGTTCTCATCCGCCTCCTTGCTCGCCGCGAGCCGCCTCCGCCGCGCGCCTCCTCCGCCGCCGCGGAC  
TCCGGCAGCTTTATCGCCAGAGTCCCTGAACTCTCGCTTCTTTTTTAATCCCCTGCATCGGATCACCGGCGTGCC  
CCACCATGTCAGACGCGAGCCGTAGACACCAGCTCCGAAATCACCACCAAGGACTTAAAGGAGAAGAAGGAAGTTG  
TGGAAGAGGCAGAAAATGGAAGAGACGCCCCTGCTAACGGGAATGCTAATGAGGAAAATGGGGAGCAGGAGGCTG  
ACAATGAGGTAGACGAAGAAGAGGAAGAAGGTGGGGAGGAAGAGGAGGAGGAAGAAGAAGGTGATGGTGAGGAAG  
AGGATGGAGATGAAGATGAGGAAGCTGAGTCAGCTACGGGCAAGCGGGCAGCTGAAGATGATGAGGATGACGATG  
TCGATACCAAGAAGCAGAAGACCGACGAGGATGACTAGACAGCAAAAAAGGAAAAGTTAACTAAAAAAAAAAG  
GCCGCCGTGACCTATTCACCTCCACTTCCCGTCTCAGAATCTAAACGTGGTCACCTTCGAGTAGAGAGGCCCGC  
CCGCCACCGTGGGCAGTGCCACCCGAGATGACACGCGCTCTCCACCACCAACCCAAACCATGAGAATTTGCA  
ACAGGGGAGGAAAAAGAACCAAAACTTCCAAGGCCCTGCTTTTTTCTTAAAAGTACTTTAAAAAGGAAATTTG  
TTTGTATTTTTTATTTACATTTTATATTTTGTACATATTGTTAGGGTCAGCCATTTTTAATGATCTCGGATGAC  
CAAACCAGCCTTCGGAGCGTTCTCTGTCCTACTTCTGACTTTACTTGTGGTGTGACCATGTTTATTATAATCTCA  
AAGGAGAAAAAAACCTTGTAAGGCAAAATGACAACAGAAAAACAATCTTATTCGAGCATTCCAGTAAC  
TTTTTGTGTATGTACTTAGCTGTACTATAAGTAGTTGGTTTGTATGAGATGGTTAAAAAGGCCAAAGATAAAG  
GTTTCTTTTTTTTCTTTTTTGTCTATGAAGTTGCTGTTATTTTTTTTGGCCTGTTTGATGTATGTGTGAAAC  
AATGTTGTCCAACAATAACAGG

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**FIGURE 980A**

GCGGCAAGCCCCGCCTCAGCCCCCTCTGGCAGGCTCCCGCCAGCGTCGCTGCGGCTCCGGCCCCGGGAGCGAGCGCC  
CGGAGCTCGGAAAGATGCGGGCGCCCGCGGGCGCTGGGGGTCTCGGGGGATCCGGGGGTCTCCGGCTGCTCCTCT  
GCCTCCTGCTGCTGAGCAGCCGCCCGGGGGGCTGCAGCGCCGTTAGTGCCACGCTGTCTATTTGACCGCAGGC  
TCTGCTCTCACCTGGAAGTCTGTATTACAGGATGGCTTGTGTTGGGCAGTGCCAGGTGGGAGTGGGGCAGGCCCCGGC  
CCCTTTTGCAAGTCACCTCCCCAGTTCTCCAACGCTTACAAGGTGTGCTCCGACAACCTCATGTCCCAAGGATTGT  
CCTGGCAGATGACCTCACCCAGTATGTGATCTCTCAGGAGATGGAGCGCATCCCCAGGCTTCGCCCCCAGAGC  
CCCGTCCAAGGGACAGGTCTGGCTTGGCACCCAAGAGACCTGGTCTGCTGGAGAGCTGCTTTTACAGGACATCC  
CCACTGGCTCCGCCCCCTGTGCCCAGCATCGGCTTCCACAACCACCAAGTGGGCAAAGGTGGAGCTGGGGCCAGCT  
CCTCTCTGTCCCCCTCTGCAGGCTGAGCTGTCCCGCCTCTCTTGGAGCACCTGTGCTGCCCCCACAGCCTCCCC  
ACCCTTCACTGAGTTACGAACCTGCCTTGCTGCAGCCCTACCTGTTCCACCAGTTTGGCTCCCGTGATGGCTCCA  
GGGTCTCAGAGGGCTCCCCAGGGATGGTCAGTGTGCGCCCCCTGCCAAGGCTGAAGCCCCCTGCCCTCTTCAGCA  
GAACTGCCTCCAAGGGCATATTTGGGGACCACCTGGCCACTCTACGGGGACCTTCCAGGGCCTTACCTGCCCC  
AGCTTTTTTCAAGACTCTGGGCTGCTCTATCTGCCCCAGGAGTTGCCAGCACCCAGCAGGGCCAGGGTGCCAAGGC  
TGCCAGAGCAAGGGAGCAGCAGCCGGGCAGAGGACTCCCCAGAGGGCTATGAGAAGGAAGGACTAGGGGATCGTG  
GAGAGAAGCTGCTTCCCCAGCTGTGCAGCCAGATGCGGCTCTGCAGAGGCTGGCCGCTGTGCTGGCGGGCTATG  
GGGTAGAGCTGCGTCAGCTGACCCCTGAGCAGCTCTCCACACTCTGACCCTGTGCTGAGCTACTGCCAAGGGTG  
CAGGAAGAAATCCGGGAGGGGTGTAAATGTTGGAGCTGATATCAAGAAAACAATGGAGGGGGCCGGTGGAGGGCA  
GAGACACAGCAGAGCTTCCAGCCCCGACATCCCCCATGCTGGACACCCCACTGCCAGCCCTACCTCCAGTGAAG  
TCCAGCAGGTGCCAAGCCCTGTCTCCTCTGAGCCTCCCAAAGCTGCCAGACCCCTGTGACACCTGTCTGCTAG  
AGAAGAAAAGCCCACTGGGCCAGAGCCAGCCCACGGTGGCAGGACAGCCCTCAGCCCGCCAGCAGCAGAGGAAT  
ATGGCTACATCGTCACTGATCAGAAGCCCCCTGAGCCTGGCTGCAGGAGTGAAGCTGCTGGAGATCCTGGCTGAGC  
ATGTGCACATGTCTCAGGACGCTTCATCAACATCAGTGTGGTGGGACCAGCCCTCACCTTCCGCATCCGGCACA  
ATGAGCAGAACCTGTCTTTGGCTGATGTGACCCAACAAGCAGGGCTGGTGAAGTCTGAACTGGAAGCACAGACAG  
GGCTCCAAATCTTGACAGCAGGAGTGGGACAGAGGGAGGAGGCAGCTGCAGTCTTCCCCAAACTGCGCACAGCA  
CCTCACCCATGCGCTCAGTGTGCTCACTCTGGTGGCCCTGGCAGGTGTGGCTGGGCTGCTGGTGGCTCTGGCTG  
TGGCTCTGTGTGTGCGGCAGCATGCGCGGCAGCAAGACAAGGAGCGCCTGGCAGCCCTGGGGCCTGAGGGGGCCC  
ATGGTGACACTACCTTTGAGTACCAGGACCTGTGCCGCCAGCACATGGCCACGAAGTCCTTGTTCAACCGGGCAG  
AGGGTCCACCGGAGCCTTACGGGTGAGCAGTGTGCTCTCCAGTTCAGCGACGCAGCCCAGGCCAGCCCCAGCT  
CCCACAGCAGCACCCCGTCTGGTGCGAGGAGCCGGCCCAAGCCAACATGGACATCTCCACGGGACACATGATTC  
TGGCATACATGGAGGATCACCTGCGGAACCGGGACCGCCTTGCCAAGGAGTGGCAGGCCCTCTGTGCCATACCAAG  
CAGAGCCAAACACCTGTGCCACCGCGCAGGGGGAGGGCAACATCAAAAAGAACCGGCATCCTGACTTCTTGCCCT  
ATGACCATGCCCCGATAAACTGAAGGTGGAGAGCAGCCCTTCTCGGAGCGATTACATCAACGCCAGCCCCATTA  
TTGAGCATGACCCTCGGATGCCAGCCTACATAGCCACGCAGGGCCCGCTGTCCCATACCATCGCAGACTTCTGGC  
AGATGGTGTGGGAGAGCGGCTGCACCGTCATCGTCATGCTGACCCCGCTGGTGGAGGATGGTGTCAAGCAGTGTG  
ACCGCTACTGGCCAGATGAGGGTGCCTCCCTCTACCACGTATATGAGGTGAACCTGGTGTGCGGAGCACATCTGGT  
GCGAGGACTTTCTGGTGGGAGCTTCTACCTGAAGAAGCTGCAGACCCAGGAGACGCGCACGCTCACGCAGTTCC  
ACTTCCTCAGCTGGCCGGCAGAGGGCACACCGGCCTCCACGCGGCCCTGCTGGACTTCCGCAGGAAGGTGAACA  
AGTGCTACCGGGGCCGCTCCTGCCCCATCATCGTGCACTGCAGTGATGGTGCGGGGAGGACCGGCACCTACATCC  
TCATCGACATGGTCCTGAACCGCATGGCAAAGGAGTGAAGGAGATTGACATCGCTGCCACCTTGGAGCATGTCC  
GTGACCAGCGGCCTGGCCTTGTCCGCTCTAAGGACCAGTTTGAATTTGCCCTGACAGCCGTGGCGGAGGAAGTGA  
ATGCCATCCTCAAGGCCCTGCCCCAGTGAGACCTGGGGCCCCCTTGGCGGGCAGCCAGCCTCTGTCCCTCTTTG  
CCTGTGTGAGCATCTCTGTGTACCCACTCCTCACTGCCCCACCAGCCACCTCTTGGGATGCTCAGCCCTCTCTA  
GAAGAGTCAGGAAGGGAAAGCCAGAAGGGGCACGCTGCCAGCCTCGCATGCCAGAGCCTGGGGCATCCCAGAG  
CCCAGGGCATCCCATGGGGGTGCTGCAGCCAGGAGGAGAGGAAAGGACATGGGTAGCAATTCTACCCAGAGCCTT  
CTCCTGCCTACATTCCCTGGCCTGGCTCTCCTGTAGCTCTCTTGGGGTCTGGGAGTCCCTGAACATCTGTGTG  
TGTCCCCCTATGCTCCAGTATGGAAGAATGGGGTGGAGGGTCGCCACACCCGGCTCCCCCTGCTTCTCAGCCCCG  
GGCCTGCCTCTGACTCACACTTGGGCGCTCTGCCCTCCCTGGCCTCACGCCCAGCCTCCTCCCACCACCTCCCA  
CCATGCGCTGCTCAACCTCTCTCCTTCTGGCGCAAGAGAACATTTCTAGAAAAAATACTTTTGTACCAAGTGTGA

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**FIGURE 980B**

ATAAAGTTAGTGTGTTGTCTGTGCAGCTGCAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 981**

MRRPRRPGGLGGSGGLRLLLCLLLLSSRPGGCSAVSAHGCLFDRRLCSHLEVCIQDGLFGQCQVGVGQARPLLQV  
TSPVLQRLQGVLRLQMSQGLSWHDDLTYVISQEMERIPRLRPPEPRPRDRSGLAPKRPGPAGELLLQDIPTGSA  
PAAQHRLFPQPPVGKGGAGASSLSPLQAELLPPLEHLLLPQPPHPSLSYEPALLQPYLFHQFGSRDGSRVSEG  
SPGMVSVGPLPKAEAPALFSRTASKGIFGDHPGHSYGDLPGPSAQLFQDSGLLYLAQELPAPSRARVPRLPEQG  
SSSRAEDSPEGYEKEGLGDRGEKPASPAVQPDAAQLRLAAVLAGYGVELRQLTPEQLSTLLTLLQLLPKGAGRNP  
GGVVNVGADIKKTMEGPVEGRDTAELPARTSPMPGHPTASPTISSEVQQVPSPVSSEPPKAARPPVTPVLLEKKSP  
LGQSQPTVAGQPSARPAEEYGYIVTDQKPLSLAAGVKLEILAEHVMSSGSFINISVVGPAITFRIRHNEQNL  
SLADVTQQAGLVKSELEAQTGLQILQTGVGQREEAAVLPTAHSTSPMRSVLLTLVALAGVAGLLVALAVALCV  
RQHARQQDKERLAALGPEGAGDITTFEYQDLCRQHMATKSLEFNRAEGPPEPSRVSSVSSQFSDAAQASPSHSST  
PSWCEEPAQANMDISTGHMILAYMEDHLNRDRLAKEWQALCAYQAEPNTCATAQEGNIKKNRHPDFLPYDHAR  
IKLKVESSPSRSDYINASPIIEHDPRMPAYIATQGPLSHTIADFWQMVWESGCTVIVMLTPLVEDGVKQCDRYWP  
DEGASLYHYEVNVLVSEHIWCEDFLVRSFYLNKVNQTQETRLTQFHFLSWPAEGTPASTRPLLDFFRKVNKCYRG  
RSCPIIVHCSDGAGRTGTYILIDMVLNRMAGVKEIDIAATLEHVRDQRPGLVRSKDQFEFALTAVAEVNAILK  
ALPQ

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**FIGURE 982**

AGTTCTCACTGAGACCTGTCAACCCGACTCAACGTGAGACGCACCGCCCGGACTCACCAATGCGTGAATGCATCTC  
AGTCCACGTGGGGCAGGCAGGTGTCCAGATGGGCAATGCCTGCTGGGAGCTCTATTGCTTGGAACATGGGATTCA  
GCCTGATGGGCAGATGCCCAGTGACAAGACCATTGGTGGAGGGGACGACTCCTTCACCACCTTCTTCTGTGAAAC  
TGGTGTGGAAAACACGTACCCCGGGCAGTTTTTGTGGATCTGGAGCCTACGGTCATTGATGAGATCCGAAATGG  
CCCATACCGACAGCTCTTCCACCCAGAGCAGCTCATCACTGGGAAAAGAGGATGCTGCCAACAACATATGCCCGTGG  
TCACTATAACCATTTGGCAAGGAGATCATTGACCCAGTGCTGGATCGGATCCGCAAGCTGTCTGACCAGTGCACAGG  
ACTTCAGGGCTTCTGGTGTTCACAGCTTTGGTGGGGGCACCTGGCTCTGGCTTCACCTCACTCCTGATGGAGCG  
GCTCTCTGTTGACTATGGCAAGAAATCCAAGCTGGAATTCTCCATCTACCCAGCCCCCAGGTGTCTACAGCCGT  
GGTTCGAGCCCTACAACCTCTATCCTGACCACCCACACCACCCTGGAGCACTCAGACTGTGCCTTCATGGTGGACAA  
CGAAGCAATCTATGACATCTGCCGCCGCAACCTAGACATCGAGCGCCCAACCTACACCAACCTCAATCGCCTCAT  
TAGCCAAATTGTCTCCTCCATCACAGCTTCTCTGCGCTTTGACGGGGCCCTCAATGTGGACCTGACAGAGTTCCA  
GACCAACCTGGTGCCTTACCCTCGCATCCACTTCCCCCTGGCCACCTATGCACCAGTCATCTCTGCAGAAAAGGC  
ATACCACGAGCAGCTGTCCGTGGCAGAGATCACCAATGCCTGCTTTGAGCCTGCCAACCAGATGGTAAAGTGTGA  
TCCCGGGCACGGCAAGTACATGGCCTGCTGCCTGCTGTACCGTGGAGATGTGGTGCCCAAGGATGTCAACGCTGC  
CATTGCCGCCATCAAGACCAAGCGCAGCATTTCAGTTTGTGGACTGGTGCCCCACAGGCTTCAAGGTTGGTATCAA  
CTACCAGCCTCCCACTGTGGTGCCTGGGGGTGACCTGGCCAAGGTGCAGCGTGCCGTGTGCATGCTGAGCAACAC  
GACCGCCATCGCCGAGGCCTGGGCCCGCTGGACCACAAGTTTCGACCTGATGTATGCCAAGAGGGCGTTTGTGCA  
CTGGTATGTGGGTGAGGGCATGGAGGAGGGTGAGTTCTCCGAGGCCCGTGAGGATATGGCTGCCCTGGAGAAGGA  
TTATGAGGAGGTGGGCATCGACTCCTATGAGGACGAGGATGAGGGAGAAGAATAAAGCAGCTGCCTGGAGCCTAT  
TCACTATGTTTATTGCAAAATCCTTTCGAAATAAACAGTTTCTTGACCGGTAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAA

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**FIGURE 983**

MRECISVHVGQAGVQMGNACWELYCLEHGIQPDGQMPSDKTIGGGDDSF T T F F C E T G A G K H V P R A V F V D L E P T V I  
DEIRNGPYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDPVLDRIKRLSDQCTGLQGFLVFH S F G G G T G S G F T  
SLLMERLSVDYGKKSLEFSIYPAPQVSTAVVEPYNSILTHTTLEHSDCAFMVDNEAIYDICRRNL D I E R P T Y T  
NLNRLISQIVSSITASLRFDGALNVDLTFQTNLVPYPRIHFPLATYAPVISAEKAYHEQLSVAEITNACFEPAN  
QMVKCDPRHGKYMACCLLYRGDVVPKDVNAIAAIAIKTKRSIQFVDWCPTGFKVGINYQPPTVVPGGDLAKVQRAV  
CMLSNTTAAEAWARLDHKFDLMYAKRAVHVHWYVGEGMEEGEFSEAREDMAALEKDYEYEVGIDSYEDEDEGEE

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**FIGURE 984**

GGGCCTGCAGTTGGCAGGAGGGTCCCGGGCCAGAGCCAGCGGGCCGTGCTGAGACGGCGTACGTGCCCTGCGT  
GAGTGCCTGGCGGCGGCGCGTGCCTAGGGGAGTGGGCGGTGAGGCCTGGTCCACGTGCGTCCCTTCCCGGGACC  
CCCGCAGCTTGGCGCCAGCGGCTACGTGAGCCAAGGCACCCGGATGTCCGCGCCCTCTCCGAGTGACCACTG  
CGGCCTCCGGTCCCGCAGTGCCCGCAGCCTCGGCCGGCGTCCACGCATTGCCATGGTGACTGTGGGCAACTACTG  
CGAGGCCGAAGGGCCCGTGGGTCCGGCCTGGATGCAGGATGGCCTGAGTCCCTGCTTCTTCTTACGCTCGTGCC  
CTCGACGCGGATGGCTCTGGGGACTCTGGCCTTGGTGCTGGCTCTTCCCTGCAGACGCCGGGAGCGGCCCGCTGG  
TGCTGATTGCTGTCTTGGGGGGCCGGCCCTCGCATCTCTCCCTACGTGCTGCAGTGCTTCTGGCCACACTTCA  
GGCGGCGCTGCCCTTGGCCGGCCTGGCTGGCCGGGTGGGCACTGCCCGGGGGGCCCCACTGCCAAGCTATCTACT  
TCTGGCCTCCGTGCTGGAGAGTCTGGCCGGCGCCTGTGGCCTGTGGCTGCTTGTCTGTGGAGCGGAGCCAGGCAG  
GCAGCGTCTGGCAATGGGCATCTGGATCAAGTTACGGCACAGCCCTGGTCTCCTGCTCCTCTGGACTGTGGCGTT  
TGCAGCTGAGAACTTGGCCCTGGTGTCTTGAACAGCCACAGTGGTGGTGGGCAAGGGCAGACTTGGGCCAGCA  
GGTTCAGTTTAGCCTGTGGGTGCTGCGGTATGTGGTCTCTGGAGGGCTGTTTGTCTGGGTCTCTGGGCCCTGG  
ACTTCGTCCCGAGTCTTATACATTGCAGGTTTCAAGAAGGACCAAGATGTGGAAGGAGCCAGGTTGCGTCAGC  
AGCCCAACAGTCTACCTGGCGAGATTTTGGCAGGAAGCTCCGCCTCCTGAGTGGCTACCTGTGGCCTCGAGGGAG  
TCCAGCTCTGCAGTGGTGGTGCTCATCTGCCTGGGGCTCATGGGTTTGAACGGGCACTCAATGTGTTGGTGCC  
TATATTCTATAGGAACATTGTGAACCTTGTGACTGAGAAGGCACCTTGAACCTCTCTGGCCTGGACTGTTACCA  
TTACGTCTTCCCTCAAGTTTCCCTCCAGGGGGGTGGCACTGGCAGTACAGGCTTCGTGAGCAACCTGCGCACCTTCC  
GTGGATCCGGGTGCAGCAGTTACGCTCTCGCGGGGTGGAGCTGCTCATCTTCTCCACCTGCACGAGCTCTCACT  
GCGTGGCACCTGGGGCGCCGCACAGGGGAGGTGCTGCGGATCGCGGATCGGGGCACATCCAGTGTACAGGGCT  
GCTCAGCTACCTGGTGTTCATGTATCCCCACGCTGGCCGACATCATATTGGCATCATCTACTTCAGCATGTT  
CTTCAACGCTGGTTTGGCCTCATTGTGTTCTGTGCTATGAGTCTTTACCTACCCCTGACCATTGTGGTCACTGA  
GTGGAGAACCAAGTTTTCGTGCTATGAACACACAGGAGAAGCTACCCGGGCACGAGCAGTGGACTCTCTGCT  
AACTTCGAGACGGTGAAGTATTACAACGCCGAGAGTTACGAAGTGAACGCTATCGAGAGGCCATCAATA  
TCAGGGTTTGGAGTGAAGTCCGAGCGCTTCACTGGTTTTACTAAATCAGACCCAGAACCTGGTGATTGGGCTCGG  
GCTCCTCGCCGGCTCCCTGCTTTGCGCATACTTTGTCACTGAGCAGAAGCTACAGGTTGGGGACTATGTGCTCTT  
TGGCACCTACATTATCCAGCTGTACATGCCCCCAATTGGTTTGGCACCTACTACAGGATGATCCAGACCAACTT  
CATTGACATGGAGAACATGTTTGAAGTGTCTGAAAGAGGAGACAGAAGTGAAGGACCTTCCCTGGAGCAGGGCCCT  
TCGCTTTCAGAAGGGCCGTATTGAGTTTGAAGACGTGCACCTCAGCTATGCCGATGGCGGAGACTCTGCAGGA  
CGTGTCTTTCAGTGTGATGCCCTGGACAGACACTTGCCCTGGTGGGCCATCTGGGGCAGGGAAGAGCACAATTTT  
GCGCCTGCTGTTTCGCTTCTACGACATCAGCTCTGGCTGCATCCGAATAGATGGGCAGGACATTTTACAGGTGAC  
CCAGGCCTCTCTCCGGTCTCACATTGGAGTTGTGCCCAAGACACTGTCTCTTTAATGACACCATCGCCGACAA  
TATCCGTTACGGCCGTGTACAGCTGGGAATGATGAGGTGGAGGCTGCTGCTCAGGCTGCAGGCATCCATGATGC  
CATTATGGCTTTCCTGAAGGTTACAGGACACAGGTGGGCGAGCGGGGACTGAAGCTGAGCGGCGGGGAGAAGCA  
GCGCGTCGCCATTGCCCCCACCATCCTCAAGGCTCCGGGCATCAITCTGCTGGATGAGGCAACGTCAGCGCTGGA  
TACATCTAATGAGAGGGCCATCCAGGCTTCTCTGGCCAAAGTCTGTGCCAACCGCACCCACCATCGTAGTGGCACA  
CAGGCTCTCAACTGTGGTCAATGCTGACCAGATCCTCGTCATCAAGGATGGCTGCATCGTGGAGAGGGGACGACA  
CGAGGCTCTGTTGTCCCGAGGTGGGGTGTATGCTGACATGTGGCAGCTGCAGCAGGGACAGGAAGAAACCTCTGA  
AGACACTAAGCCTCAGACCATGGAACGGTGACAAAAGTTTGGCCACTTCCCTCTCAAAGACTAACCCAGAAGGGA  
ATAAGATGTGTCTCTTCCCTGGCTTATTTTCATCCTGGTCTTGGGGTATGGTGCTAGCTATGGTAAGGGAAGG  
GACCTTTCGAAAAACATCTTTTGGGGAATAAAAAATGTGGACTGTG

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**FIGURE 985**

GTGCACTTCAGCTATGCCGATGGGTGAGGCCCTTCCTTTTGCTTCCTTTGCTTTCCGTTTCATTTCACACTGCCT  
TCCTGCTTCTCAGTGCTCTGAATCCCTGCTTTTGGAAAAGAGCCTGGGCAGGGGAGGGGCAGGGCCTACTAGCAG  
CTCTGGTGATGGAAGGTGCCTGCTGAGCAACCCACCTTTCCTTGACGGCGGGAGACTCTGCAGGACGTGTCTTT  
CACTGTGATGCCTGGACAGACACTTGCCCTGGTGAGAGGAGACCCAGCCACTTGGCCCAGATGCCTCAAGCTTCC  
CTCATTTCAGTGCCCATGGTAGCTTGTGACCCAGGCTGTGGAGTCAGAGAGCCCAGTCACGATAGGCAACCGGATT  
GAATGGTGCAGCCTCCATGGACACTGGTGACCTCTTGGAGAGGGAACCTCAAAGCCAGTGGGCCTCGGCCGGCT  
GCGGTGGCACATGCCTGTAATCCCAGCACTTTGGGAGGCTTAGGTGGCCAGATCACCTAAGGTGGGCCCATCTGG  
GGCAGGGAAGAGCACAAATTTGCGCCTGCTGTTTCGCTTCTACGACATCAGCTCTGGCTGCATCCGAATAGATGG  
G



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**FIGURE 986**

GCTGCCCCGGTATCCCCGTGTGGGGCAGGAAGTGGGCTTCCAGATTCCCAGTATCCCCGGTAGGGTCTGCTTCTG  
CTCGCTCGGGAAGGGCGGTGGCCGTCCCATTAACAACCCCTCAACGCACTGGTCTCCAGTTCCCTCCCC  
TCAGTGGGTAAACAAACACACACCAGCGCTTGACTCGACAGACTCGAAAACAACATCTACTCAGAAAAGTTGTTT  
CTTTCCTATCTCCTTAAACTTTCCCACTTCCACATATCGGAGCTTCTTCCACCTCGGCCTACTCAAGCATGAGA  
TCGGAGGCGGGAGGGCGGCGACTGGCGGCGCATGGACCTGACCGGGCTCCTGCTGGACGAAGAAGGCACCTTCT  
CCCTCGCCGGCTTCCAGGACTTCAGTTCTTCCAGGACACCAGAAGCTGAGTCCCCGGATCCGAAGGAGGCTCT  
ACTATGGCTGGGACTGGGAAGCCGACTGTAGCCTGGAGGAGCTCTCCAGCCCGGTGGCAGACATTGCTGTGAAC  
TGCTCCAGAAGGCAGCCCCCAGCCCTATTGCGCGACTCCAGAAGAAATATGTAGCTCATGTGTCCCGGAGGCAT  
GCATCTCCCCATGTGCTATGATGCTGGCTCTGGTGTACATTGAACGGCTCCGGCACCAGAAACCCAGACTACTTGC  
AGCATGTGTCATCCTCTGACTTGTCTGATCTCCATGATGGTGGCCAGTAAGTACCTCTATGATGAAGGGGAGG  
AGGAGGAGGTCTTCAACGACGAATGGGGAGCTGCTGGGGGTGTGGCCGTGCCCACTCTCAATGCCTTGGAGAGGG  
GCTTCCTGAGTGCCATGGATTGGCATCTCTACACTGACCCTCGGGAGATCTTTGAGGTGCTGAGCTGGTTGGAGA  
GCTGTGTGGCTGAGCAGCAGGGACGGTGGCGAGGCTGGTACACCTACACAGACCTGTGTGTGCTGCTGGAGCAGC  
CGACCTGGCAGTTGGCCCTGGGCTCCCTCTGCCAGCGGCTGGTAAAGCTGTCTTGCCTGTTAGCTGTGGCATATG  
TGAGCAGTGTGGCCCTGGCTGTGGCATCGGTGGCCGTAATACATCAGTCTTTGGGGCTGTCCTGCATCCCTACAC  
CTGGGCCCGCTGACCTTGGACTGACCTCCCGTTGCCTCCTGGAGCCCTGCATACCTTCTGTGCCACAATGCCTGC  
CGTCTCTCGTAATGTCTCCAGCTGCCTGGAAGGCAGCATGGGGCTGCGGTCACTCTGGGGCAGTCTTCTGGCCT  
CACTGACTCCTCCACCATTGCCTCCCCCAGACCCCCCTGCCCCCTCCCACTCTTCTTCATAACTGCCACCTTTGCC  
AGAAGCTCCAGAGAGACTCCCCAACCTGCCATGCCTGCCTCCACCCCAACCGTACAGTCCCCACTGCGCTGTCCA  
GCCCCCTGGTACCATACTATGGCCTGGCTCCCCCTGGCCTTGGAGCCCGGTGCTCCTTTCACCTTCCCTCAGCCTC  
AGCAATGTTCCCTTTTCACTGTGATGGAGCTGGCTCGCCTCAAGTCTTTTCGTTTTCCAGGCTAGGTAGGGCTGT  
GAGGAATGCATTAAAGAGGGTTTGGGAGTTTCTGAGAACCTGGAGGAGCAAAGCTTGATTGAGATCCTGTCTGCCT  
CGCTGGGTCTTTGGCAGGTCCCCGTCTCCTGGGTGGGAGCTTATGGGGTGGTGGGGCAGAAGGACTGAAGGTA  
ATTCACTCCTAGATCGCAGTGGCTGGCTGCTTGGCCAGGACAGTGATGCCGCCAGGGAGAGCTTCCGCTTGGTGA  
CCAGGGACATGTCCCAGATGGACATAGAAGCCCCCTCTCTGCCTCCCTGGGATTTTTTAGACTTTTACTTTTGATT  
TCCCTAGGATGGAAGAGTATAGGTGGGAGATAAGGGAAGTGGGGTGAGAGGAGAAAGGAAATGTTGGCATGGGCC  
TGTGTGATGTCCCTGAGGCAGAAGAGC

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**FIGURE 987**

MDLTGLLLDEEGTFSLAGFQDFTFLPGHQKLSARIRRRLLYYGWDWEADCSLEELSSPVADIARELLQKAAPSPIR  
RLQKKYVAHVSREACISPCAMMLALVYIERLRHRNPDYLQHVSSDLFLISMMVASKYLYDEGEEEEVFNDEWGA  
AGGVAVPTLNALERGFLSAMDWHLYTDPREIFEVLWSWLESCVAEQQGRWRGWYTYTDLCLVLEQPTWQLALGSLC  
QRLVKLSCLLAVAYVSSVALAVASVAVIHQSLGLSCIPTPGPPDLGLTSRCLLEPCIPSVPOCLPSLANVSSCLE  
GSMGLRSLWGSLLASLTPPPLPPPDPPAPPTLLHNCHLCQKLQKQDSPTCHACLHPNRTVPTALSSPWYHTYGLAP  
PWPWSPVLLSLPQPQCSLFSVMELARLKSFFVFG

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**FIGURE 988**

GAAGATATGGCGCGTCTGCGTCTGCAGCTGCAGGGGAGGAGGACTGGGTCCTTCCCTCTGAAGTTGAAGTATTG  
GAGTCCATCTATCTAGATGAACTACAGGTGATTAAAGGAAATGGCAGAACTTCACCATGGGAGATCTACATCACT  
TTGCATCCTGCCACTGCAGAGGACCAGGATTCACAGTATGTCTGCTTCACTCTGGTGCTTCAGGTCCCAGCAGAG  
TATCCCCATGAGGTGCCACAGATCTCTATCCGAAATCCCCGAGGACTTTCAGATGAACAGATCCACACGATCTTA  
CAGGTGCTGGGCCACGTGGCCAAGGCTGGGCTGGGCACCTGCCATGCTGTATGAACTCATTGAGAAAGGGAAGGAA  
ATTCTCACAGATAACAACATCCCTCATGGCCAGTGTGTCTATCTGCCTCTATGGTTTCCAGGAGAAGGAGGCCTTT  
ACCAAAACACCCTGTTACCACTACTTCCACTGCCACTGCCTTGCTCGGTACATCCAGCACATGGAGCAAGAGCTG  
AAGGCACAAGGACAGGAGCAGGAACAGGAACGGCAGCATGCTACAACCAAACAGAAGGCAGTCGGTGTGCAGTGT  
CCAGTGTGCAGAGAGCCCCCTCGTGTATGATCTTGCCTCACTGAAAGCAGCCCCCTGAACCCCAACAGCCCATGGAG  
CTGTACCAGCCCAGTGCAGAGAGCTTGCGCCAGCAAGAAGAACGCAAGCGGCTCTACCAGAGGCAGCAGGAGCGG  
GGGGGAATCATTGACCTTGAGGCTGAGCGAAACCGATACTTCATCAGCCTTCAGCAGCCTCCTGCCCCCTGCGGAA  
CCTGAGTCAGCTGTAGATGTCTCAAAGGATCCCAACCAACCCAGCACCCCTTGCAGCAGAACTATCCACCTCACCA  
GCCGTCCAATCCACTTTGCCACCTCCTCTGCCTGTGGCGACCCAGCACATATGTGAGAAGATTCCAGGGACCAGG  
TCAAATCAGCAAAGGTTGGGCGAAACCCAGAAAGCTATGCTAGATCCCCCAAGCCAGTCGAGGTCCCTGGCGA  
CAGCCCGAACGGAGGCACCCAAAGGGAGGGGAGTGCCACGCCCCCTAAAGGTACCCGTGACACCCAGGAACCTGCCA  
CCTCCTGAGGGGGCCCTCAAGGAGCCCATGGACCTAAAGCCAGAACCCCATAGCCAAGGAGTTGAAGGTCCTCCA  
CAAGAGAAGGGGCTGGCAGCTGGCAGGGGCCCCACCCCGCAGGACTCGGGACTGTGTTTCGTGGGAGCGCTCT  
AAAGGCCGGACACCCGGTTCTTCTTACCTTCGCTGCCTCGGGGCCAGTAGCATACCGGCTGGTACTCGGAGGG  
AGTCCCTGGGCCTGGAATCTAAGGATGGTTCTTAGCAGGACTTGGTGGGGGAACAGGGAATTGGGGATGGGAGG  
GAGGCAATAAAGATATTTGGCCTTC

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**FIGURE 989**

MAASASAAAGEEDWVLPSEVEVLESIYLDELQVIKNGRTSPWEIYITLHPATAEDQDSQYVCFTLVLPVPAEYP  
HEVPQISIRNPRGLSDEQIHTILQVLGHVAKAGLTAMLYELIEKGKEILTDNNIPHGQCVICLYGFQEKEAFTK  
TPCYHYFHCCLARYIQHMEQELKAQGQEQEQERQHATTKQKAVGVQCPVCREPLVYDLASLKAPEPQQPMELY  
QPSAESLRQQEERKRLYQRQQERGGIIDLEAERNRYFISLQQPPAPAEPESAVDVSKGSQPPSTLAAELSTSPAV  
QSTLPPPLPVATQHICEKIPGTRSNQQRLEGETQKAMLDPPKPSRGPWRQPERRHPKGGECHAPKGTRDTQELPPP  
EGPLKEPMDLKPEPHSQGVEGPPQEKGPSWQGPPPRRTRDCVRWERSKGRTPGSSYPRLPRGQ

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**FIGURE 990**

GGCACGAGGGCCAGCTGCTGTAGAAAGAGGGGAGGAAACAAGCCAGTGCAAGGGGAGCAAAAGAGAAAAGGAGCCA  
GGCTGGGCTTCTGATCCACAGCATCGCAGAGCTCGGGAGGCACAGCTCACAGACACAGGAAACACAGGACTGC  
TATTCTGCTCTCCTGCCACGGTGATCTGGTGCCAGCTGGTGGAACAGTGGGTGATGGCGTCCCTGCTGCAAGAC  
CAGCTGACCACTGATCAGGACTTGCTGCTGATGCAGGAAGGCATGCCGATGCGCAAGGTGAGGTCCAAAAGCTGG  
AAGAAGCTAAGATACTTCAGACTTCAGAAATGACGGCATGACAGTCTGGCATGCACGGCAGGCCAGGGGCAGTGCC  
AAGCCCAGCTTCTCAATCTCTGATGTGGAGACAATACGTAATGGCCATGATTCCGAGTTGCTGCGTAGCCTGGCA  
GAGGAGCTCCCCCTGGAGCAGGGCTTCACCAATTGTCTTCCATGGCCGCCGCTCCAACCTGGACCTGATGGCCAAC  
AGTGTGAGGAGGCCAGATATGGATGCGAGGGCTCCAGCTGTTGGTGGATCTTGTCACCAGCATGGACCATCAG  
GAGCGCTGGACCAATGGCTGAGCGATTGGTTTCAACGTGGAGACAAAATCAGGATGGTAAGATGAGTTTCCAA  
GAAGTTCAGCGGTTATTGCACCTAATGAATGTGGAAATGGACCAAGAATATGCCTTCAGTCTTTTTCAGGCAGCA  
GACACGTCCCAGTCTGGAACCCCTGGAAGGAGAAGAATTCGTACAGTTCTATAAGGCATTGACTAAACGTGCTGAG  
GTGCAGGAAGTGTGAAAGTTTTTCAGCTGATGGGCAGAACTGACTCTGCTGGAATTTTTGGATTTCCTCCAA  
GAGGAGCAGAAGGAGAGAGACTGCACCTCTGAGCTTGCTCTGGAACCTATTGACCGCTATGAACCTTCAGACAGT  
GGCAAACCTGCGGCATGTCTGAGTATGGATGGCTTCCCTCAGCTACCTCTGCTCTAAGGATGGAGACATCTTCAAC  
CCAGCTGCGCTCCCCATCTATCAGGATATGACTCAACCCCTGAACCACTACTTCATCTGCTCTTCTCATAACACC  
TACCTAGTGGGGGACCAGCTTTGCGGCCAGAGCAGCGTCGAGGGATATATACGGGCCCTGAAGCGGGGTGCCGC  
TGCGTGAGGTTGATGTATGGGATGGACCTAGCGGGGAACCTGTGCTTTACCACGGACACACCCCTGACCTCCCGC  
ATCCTGTTCAAAGATGTCTGGCCACAGTAGCACAGTATGCCCTCCAGACATCAGACTACCCAGTCATCTTGTCC  
CTGGAGACCCACTGCAGCTGGGAGCAGCAGCAGACCATGGCCCGTCATCTGACTGAGATCCTGGGGGAGCAGCTG  
CTGAGCACCACCTTGGATGGGGTGCTGCCCCACTCAGCTGCCCTCGCCTGAGGAGCTTCGGAGGAAGATCCTGGTG  
AAGGGGAAGAAGTTAACTTGGAGGAAGACCTGGAATATGAGGAAGAGGAAGCAGAACCTGAGTTGGAAGAGTCA  
GAATTGGCGCTGGAGTCCAGTTTGGAGCTGAGCCTGAGCCCCAGGAGCAGAACCTTCAGAATAAGGACAAAAG  
AAGAAATCCAAGCCCATCTTGTGTCCAGCCCTCTCTTCCCTGGTTATCTACTTGAAGTCTGTCTCATTCCGCAGC  
TTCACACATTCAAAGGAGCACTACCACTTCTACGAGATATCATCTTTCTCTGAAACCAAGGCCAAGCGCCTCATC  
AAGGAGGCTGGCAATGAGTTTGTGCAGCACAACTTGGCAGTTAAGCCGTGTGTATCCCAGCGGCTGAGGACA  
GACTCTTCCAACATAACCCCCAGGAACCTGGAATGCAGGCTGCCAGATGGTGGCCATGAATATGCAGACTGCA  
GGGCTTGAAATGGACATCTGTGATGGGCATTTCCGCCAGAATGGCGGCTGTGGCTATGTGCTGAAGCCAGACTTC  
CTGCGTGATATCCAGAGTTCTTTCCACCCTGAGAAGCCCATCAGCCCTTTCAAAGCCCAGACTCTCTTAATCCAG  
GTGATCAGCGGTGAGCAACTCCCCAAAGTGGACAAGACCAAGAGGGGTCCATTGTGGATCCACTGGTGAAAGTG  
CAGATCTTTGGCGTTCTGTCTAGACACAGCACGGCAGGAGACCAACTATGTGGAGAACAATGGTTTTAATCCATAC  
TGGGGGCAGACACTATGTTTCCGGGTGCTGGTGCCTGAACTTGCCATGCTGCGTTTTGTGGTAATGGATTATGAC  
TGGAATCCCGAAATGACTTTATTGGTCAGTACACCCTGCCTTGACCTGCATGCAACAAGGTTACCGCCACATT  
CACCTGCTGTCCAAAGATGGCATCAGCCTCCGCCAGCTTCCATCTTTGTGTATATCTGCATCCAGGAAGGCCTG  
GAGGGGGATGAGTCTTCAGGTGGGCATTTACGGGAAGGGTTGGTATGCTGGCTTTAGACGGGGAGAAACATCTG  
GAAGGATGCTCGAGAGAACAAATGGAGGTGGTGAATCAAGCTTTGGATTGTGCATTCCTAGGCACAAAATTAC  
CTCATTCTTCTTAACAAGCAATCTGGGACCTGATTTCCACCTTTTTCTCTTTTCTTCCCTTCTTGTTTTCA  
TAAGCCTTTGGTATCTTTCTGCCCCTTTTCTTGTGTACTCTATACTGGAGTTCCCTTCTTCTTCTGCTGTAG  
GCTCAATCCCATACCGACATCTACAATAATCTTTCCATCAACTCTGTGTGAAGGCAGGTTGCAACTAGAAATT  
CAGAGGGGCTTGGAATAGAGAAACCTAAAGAAGCATCATCCCTCCATCCCCAACTTCTCAAAGCCCAAAGCCA  
AGGGAAGGATAAATCAAGGCTCAAGGCTTCCCAGCAAAGATTAGGGAAAGAGACTGACCCAGGACTGTACTA  
CGACTCTTAAGAGAACTGCACAGCACTCAAAGTCCCCACTGGACTGCTTCTCCTTAGCCCCACTGGTATAA  
ATACATCTCTCTCAATTTGGCAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 991**

MASLLQDQLTTDQDLLLLMQEGMPMRKVRSKSWKKLRYFRLQNDGMTVWHARQARGSAKPSFSISDVETIRNGHDS  
ELLRS�AEELPLEQGFTIVFHGRRSNLDLMANSVEEAQIWMRGLQLLDLVTSMDHQERLDQWLSDFQRGDKNQ  
DGKMSFQEVQRLHLMNVEMDQEYAFSLFQAADTSQSGTLEGEFVQFYKALTKEAEVQELFESFSADGQKLTL  
EFLDFLQEEQKERDCTSELALELIDRYEPSDSGKLRHVLSMDGFLSYLCSKDGDIENPACLPYQDMTQPLNHYF  
ICSSHNTYLVGDQLCGQSSVEGYIRALKRGCRCEVDVWDGPGSEPVVYHGHTLTSRILFKDVVATVAQYAFQTS  
DYPVILSLETHCSWEQQQTMARHLTEILGEQLLSTLDGVLPTQLPSPEELRRKILVKGKLTLEEDLEYEEEEA  
EPELESELALESQFETEPEPQEQNLQNKDKKKKSKPILCPALSSLYLKSVSFRSFTHSKEHYHFYEISSFSE  
TKAKRLIKEAGNEFVQHNTWQLSRVYPSGLRTDSSNYPQELWNAGCQMVAMNMQTAGLEMDICDGHFRQNGCG  
YVLKPDFLRDIQSSFHPEKPI SPFKAQTLLIQVISGQQLPKVDKTKEGSIVDPLVKVQIFGVRLDTARQETNYVE  
NNGFNYPYWGQTLCFRVLVPELAMLRFFVMDYDWKSRNDFIGQYTLPTWTCMQQGYRHIHLLSKDGISLRPASIFVY  
ICIQEGLEGDES

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**FIGURE 992**

TTCTCCCCAGGCTCACTCACCATGACCAAGCTGAGCGCCCAAGTCAAAGGCTCTCTCAACATCACCACCCCGG  
GCTGCAGATATGGAGGATCGAGGCCATGCAGATGGTGCCTGTTCTTCCAGCACCTTTGGAAGCTTCTTCGATGG  
TGA CTGCTACATCATCTGGCTATCCACAAGACAGCCAGCAGCCTGTCTATGACATCCACTACTGGATTGGCCA  
GGACTCATCCCTGGATGAGCAGGGGGCAGCTGCCATCTACACCACACAGATGGATGACTTCCTGAAGGGCCGGGC  
TGTGCAGCACC CGAGGTCCAGGGCAACGAGAGCGAGGCCTTCCGAGGCTACTTCAAGCAAGGCCTTGTGATCCG  
GAAAGGGGGCGTGGCTTCTGGCATGAAGCACGTGGAGACCAACTCCTATGACGTCCAGAGGCTGTGTCATGTCAA  
GGGCAAGAGGAACGTGGTAGCTGGAGAGGTAGAGATGTCTTGAAGAGTTTCAACCGAGGGGATGTTTTCTCTCT  
GGACCTTGGGAAGCTTATCATCCAGTGAATGGACCGAAAGCACCCGTATGGAGAGACTCAGGGGCATGACTCT  
GGCCAAGGAGATCCGAGACCAGGAGCGGGGAGGGCGCACCTATGTAGGCGTGGTGGACGGAGAGAATGAATTGGC  
ATCCCCGAAGCTGATGGAGGTGATGAACCACGTGCTGGGCAAGCGCAGGGAGCTGAAGGCGGCCGTGCCCGACAC  
GGTGGTGGAGCCGGCACTCAAGGCTGCACTCAAACCTGTACCATGTGTCTGACTCCGAGGGGAATCTGGTGGTGA  
GGAAGTCGCCACACGGCCACTGACACAGGACCTGCTCAGTCACGAGGACTGTTACATCCTGGACCAGGGGGGCCT  
GAAGATCTACGTGTGAAAGGGAAGAAAGCCAATGAGCAGGAGAAGAAGGGAGCCATGAGCCATGCGCTGAACCT  
CATCAAAGCCAAGCAGTACCCACCAAGCACACAGGTGGAGGTGCAGAAATGATGGGGCTGAGTCGGCCGTCTTTCA  
GCAGCTCTTCCAGAAGTGGACAGCGTCCAACCGGACCTCAGGCCTAGGCAAAACCCACACTGTGGGCTCCGTGGC  
CAAAGTGGAAACAGGTGAAGTTTCGATGCCACATCCATGCATGTCAAGCCTCAGGTGGCTGCCACGAGAAGATGGT  
AGATGATGGGAGTGGGGAAGTGCAGGTGTGGCGCATTGAGAACCTAGAGCTGGTACCTGTGGATTCCAAGTGGCT  
AGGCCACTTCTATGGGGCGGACTGCTACCTGCTGCTCTACACCTACCTCATCGGCGAGAAGCAGCATTACCTGCT  
CTACGTTTGGCAGGGGACGCCAGGCCAGCCAAGATGAAATTACAGCATCAGCTTATCAAGCCGTATCCTGGACCA  
GAAGTACAATGGTGAACCAGTCCAGATCCGGGTCCCAATGGGCAAGGAGCCACCTCATCTTATGTCCATCTTCAA  
GGGACGCATGGTGGTCTACAGGGAGGCACCTCCCGAACTAACAACCTGGAGACCGGGCCCTCCACACGGCTGTT  
CCAGGTCCAGGGAAC TGGCGCCAACAACACCAAGGCCTTTGAGGTCCCAGCGCGGGCCAATTTCTCAATTCCAA  
TGATGTCTTTGTCTCAAGACCCAGTCTTGCTGCTATCTATGGTGTGGGAAGGGTGTAGCGGGGACGAGCGGGA  
GATGGCCAAGATGGTTGCTGACACCATCTCCCGACGGAGAAGCAAGTGGTGGTGGGAAGGGCAGGAGCCAGCCAA  
CTTCTGGATGGCCCTGGGTGGGAAGGCCCTTATGCCAACCAAGAGACTACAGGAAGAAAACCTGGTCATCAC  
CCCCGGCTCTTTGAGTGTTCACAAGACTGGGCGCTTCTGGCCACAGAGATCCCTGACTTCAATCAGGATGA  
CTTGAAGAGGATGATGTGTTCTACTAGATGTCTGGGACCAGGTCTTCTTCTGGATTGGGAACATGCCAACGA  
GGAGGAGAAGAAGGCCGACGAACCACTGCACAGGAATACCTCAAGACCCATCCCAGCGGGCGTGACCTGAGAC  
CCCCATCATTGTGGTGAAGCAGGGACACGAGCCCCCACCTTCACAGGCTGGTTCCTGGCTTGGGATCCCTTCAA  
GTGGAGTAACACCAAATCCTATGAGGACCTGAAGGCGGAGCTTGGCAACTCTAGGGACTGGAGCCAGATCACTGC  
TGAGGTCAACAAGCCCCAAAGTGGACGTGTTCAATGCTAACAGCAACCTCAGTTCTGGGCCTCTGCCATCTTCCC  
CCTGGAGCAGCTAGTGAACAAGCCTGTAGAGGAGCTCCCCGAGGGTGTGGACCCAGCAGGAAGGAGGAACACCT  
GTCCATTGAAGATTTCACTCAGGCCTTTGGGATGACTCCAGCTGCCTTCTCTGCTCTGCCTCGATGGAAGCAACA  
AAACCTCAAGAAAGAAAAGGACTATTTTGAGAAGAGTAGCTGTGGTTGTAAAGCAGTACCCTACCCTGATTGTA  
GGGTCTCATTTTCTACCGATATTAGTCCTACACCAATTGAAGTGAATTTTGCAGATGTGCCTATGAGCACAAA  
CTTCTGTGGCAAATGCCAGTTTGTTTAATAATGTACCTATTCTTCAGAAAGATGATACCCC

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**FIGURE 993**

TGCTCCCTTTTTCTGTCTCTGTCCATGCTGCCATGTTTCTCTGCTGCCAAATTGGGCCCCTTGGCCCCTTCCGGT  
TCTGCTTCCTGGGGGCAGGGTTCTGCTTGGACCCCCAGTCTGGGAACGGTGGACATCAAGTGCCTTGCATAGA  
GCCCCCTCTTCCCCGCCAGCTTTCCCAGGGGCACAGCTCTAGGCTGGGAGGGGAGAACCAGCCCCCTCCCCCTGC  
CCCACTCCTCTCCCCAGGGTCTAACGGTTAAGGGGACCCACATACCAGTGCCAAGGGGGATGTCAAGTGGTGAT  
GTCGTTGTGCTCCCCCTCCCCAGAGCGGGTGGGCGGGGGTGAATATGGTTGGCCTGCATCAGGTGGCCTTCCCA  
TTTAAGTGCCTTCTCTGTGACTGAGAGCCCTAGTGTGATGAGAACTAAAGAGAAAGCCAGACCCCT



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**FIGURE 994**

ATGGACTCTGGGAGGCGTTTGGGCCAGAGAAGTGGATCCGCCGCTTGCGCCGCATGGAGTCCGAATCGGAAAGC  
GGGGCTGCTGCTGACACCCCCCACTGGAGACCCTAAGCTTCCATGGTGATGAAGAGATTATCGAGGTGGTAGAA  
CTTGATCCCGGTCCGCCGGACCCAGATGACCTGGCCCAGGAGATGGAAGATGTGGACTTTGAGGAAGAAGAGGAG  
GAAGAGGGCAACGAAGAGGGCTGGGTTCTAGAACCCAGGAAGGGGTGGTCGGCAGCATGGAGGGCCCCGACGAT  
AGCGAGGTACCTTTGCATTGCACCTCAGCATCTGTGTTTGTGTGAGCCTGGACCCCAAGACCAATACCTTGGA  
GTGACCGGGGGTGAAGATGACAAAGCCTTCGTATGGCGGCTCAGCGATGGGGAGCTGCTCTTTGAGTGTGCAGGC  
CATAAAGACTCTGTGACTTGTGCTGGTTTCAGCCATGACTCCACTCTAGTGGCCACAGGGGACATGAGTGGCCTC  
TTGAAAGTGTGGCAGGTGGACACTAAGGAGGAGGTC<sup>+</sup>TGGTCCTTTGAAGCGGGAGACCTGGAGTGGATGGAGTGG  
CATCCTCGGGCACCTGTCCTGTTGGCGGGCACAGCTGACGGCAACACCTGGATGTGGAAAGTCCCGAATGGTGAC  
TGCAAGACCTTCCAGGGTCCCAACTGCCCAGCCACCTGTGGCCGAGTCCTCCCTGATGGGAAGAGAGCTGTGGTA  
GGCTATGAAGATGGGACCATCAGGATTGGGACCTGAAGCAGGGGAAGCCCTATCCATGTACTGAAAGGGACTGAG  
GGTACCCAGGGCCCCACTCACCTGTGTTGCTGCCAACCAGGATGGCAGCTTGATCCTAACTGGCTCTGTGGACTGC  
CAGGCCAAGCTGGTCAGTGCCACCACCGCAAGGTGGTGGGTGTTTTTAGACCTGAGACTGTGGCCTCCAGCCC  
AGCCTGGGAGAAGGGGAGGAGAGTGAGTCCAACCTCGGTGGAGTCCTTGGGCTTCTGCAGTGTGATGCCCCCTGGCA  
GCTGTTGGCTACCTGGATGGGACCTTGCCATCTATGACCTGGCTACGCAGACTCTTAGGCATCAGTGTGAGCAC  
CAGTCGGGCATCGTGCAGCTGCTGTGGGAGGCAGGCACTGCCGTGGTATATACCTGCAGCCTGGATGGCATCGTG  
CGCCTCTGGGACGCCCGGACCGGCCGCTGCTTACTGACTACCGGGGCCACACGGCTGAGATCCTGGACTTTGCC  
CTCAGCAAAGATGCCTCCCTGGTGGTGACCACGTGAGGAGACCACAAAGCGAAAGTATTTTGTGTCCAAAGGCCT  
GACCGTTAAATGGCTGCAGCCCCCTGCCTGTGTGCTGGTGTGAGGGGACGAAGGGACCCCTGCCCTGTCTGCCA  
GCAGAGGCAGTAGGGCACAGAGGGAAGAGGAGGGTGGGGCCCTGGATGACTTTCCAGCCTCTTCAACTGACTTGC  
TCCCTCTCCTTTTTCTTCTTTAGAGACCCAGCCCAGGGCCCTCCCACCCTTGCCCAGACCTGGTGGGCCCTTC  
AGAGGGAGGGGTGGACCTGTTTCTTTCACTTTCAATTGCTGGTGTGAGCCATGGGGTGTGTATTTGTATGTGG  
GGAGTAGGTGTTTGAAGTTCCCGTTCTTTCCCTTCCCAAGTCTCTGGGGTGGAAAGGAGGAAGAGATACTAGTT  
AAAGATTTTAAAAATGTAAATAAAATATACTTCCAG

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**FIGURE 995**

MDSGRRLGPEKWIRRLRMESESESGAAADTPPLETLSFHGDEEIIIEVVELDPGPPDPDDLAQEMEDVDFEEEE  
EEGNEEGWVLEPQEGVVGSMEGPDDEVTFAHLSASVFCVSLDPKTNLAVTGGEDDKAFVWRLSDGELLFECAG  
HKDSVTCAGFSHDSTLVATGDMGSLKLVQVDTKEEVWSFEAGDLEWMEWHPRAPVLLAGTADGNTWMWKVPNGD  
CKTFQGPNCPATCGRVLPDGKRAVVGIEDGTIRIWDLKQGSPIHVLKGTEGHQGP LTCVAANQDGS LILTGSVDC  
QAKLVSATTGKVVG VFRPETVASQPSLGEGESESNVESLGFC SVMPLA AVGYLDGTLAIYDLATQTLRHQCQH  
QSGIVQLLWEAGTAVVYTCSLDGIVRLWDARTGRLLTDYRGHTAEILDFALSKDASLVVTTSGD HKAKVFCVQRP  
DR

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**FIGURE 996**

GGCACGAGCTCTCCCTCCGTCCTTGCCCTCCCTTACCCACCCTCACCGGCCCTTGTTTCTCCTTCCCCTGGGGGCA  
GCCGCCGCCATGATCCTGCTGGAGGTGAACAACCGCATCATCGAGGAGACGCTCGCGCTCAAGTTCGAGAACGCG  
GCCGCCGGAACAAACCGGAAGCAGTAGAAGTAACATTTGCAGATTTTCGATGGGGTCCTCTATCATATTTCAAAT  
CCTAATGGAGACAAAACAAAAGTGATGGTCAGTATTTCTTTGAAATTCTACAAGGAAC TTCAGGCACATGGTGCT  
GATGAGTTATTAAGAGGGTGTACGGGAGTTTCTTGGTAAATCCAGAATCAGGATACAATGTCTCTTTGCTATAT  
GACCTTGAAAATCTTCCGGCATCCAAGGATTCATTGTGCATCAAGCTGGCATGTTGAAGCGAAATTGTTTTGCC  
TCTGTCTTTGAAAATACTTCCAATTCCAAGAAGAGGGCAAGGAAGGAGAGAACAGGGCAGTTATCCATTATAGG  
GATGATGAGACCATGTATGTTGAGTCTAAAAAGGACAGAGTCACAGTAGTCTTCAGCACAGTGT TTAAGGATGAC  
GACGATGTGGTCATTGGAAGGTGTTTCATGCAGGAGTTCAAAGAAGGACGCAGAGCCAGCCACACAGCCCCACAG  
GTCCTCTTTAGCCACAGGGAACCTCCTCTGGAGCTGAAAGACACAGACGCCGCTGTGGGTGACAACATTGGCTAC  
ATTACCTTTGTGCTGTTCCCTCGTCACACCAATGCCAGTGCTCGAGACAACACCATCAACCTGATCCACACGTTT  
CGGGACTACCTGCACTACCACATCAAGTGCTCTAAGGCCTATATTCACACACGTATGCGGGCGAAAACGTCTGAC  
TTCCTCAAGGTGCTGAACCGCGCACGCCCAGATGCCGAGAAAAAGAAATGAAAACAATCACGGGGAAGACGTTT  
TCATCCCGCTTAATCTTGGGAATAAGAGGAGGAAGCGGCTGGCAACTGAAGGCTGGAACACTTGCTACTGGATAAT  
CGTAGCTTTTAATGTTGCGCCTCTTCAGGTTCTTAAGGGATTCTCCGTTTTGGTTCCATTTTGTACACGTTTGGA  
AAATAATCTGCAGAAACGAGCTGTGCTTGCAAAGACTTCATAGTTCCCAAGAATTAAAAAAAAAAAAAAAAAAAA

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**FIGURE 997**

MILLEVNNRIIEETLALKFENAAAGNKPEAVEVTFADFDGVLYHISNPNGDKTKVMVSI SLKFYKELQAHGADEL  
LKR VYGSFLVNPESGYNVSLLYDLENLPASKDSIVHQAGMLKRNCFASVFEKYFQFQEEGKEGENRAVIHYRDE  
TMYVESKKDRVTIVVFSTVFKDDDDVVIGKVF MQEFKEGRRASHTAPQVLF SHREPPLELKDTDAAVGDNIGYITF  
VLFPRHTNASARDNTINLIHTFRDYLHYHIKCSKAYIHTMR AKTSDFLKVLNRARPD AEKKEMKTI TGKTFSSR

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**FIGURE 998**

GCGGCGGCGAGAGGATGAACAACAAGTTCGACGCTTTGAAAGATGATGACAGTGGGGACCATGATCAGAATGAAG  
AAAACAGCACACAGAAAGATGGTGAGAAGGAAAAACGGAACGAGACAAGAATCAGAGCAGTAGCAAGAGAAAAGG  
CTGTTGTCCCTGGACCGGCAGAGCATCCCCTGCAGTACAACCTACACTTTTGGTACTCCAGGAGAACCCCGGCC  
GTCCCACGAGCTCACAGAGCTATGAACAGAATATCAAACAGATTGGCACCTTGCCTCTGTGGAGCAGTTCTGGA  
GGTTTTATAGCCACATGGTACGTCCTGGGGACCTGACAGGCCACAGTGACTTCCATCTCTTCAAAGAAGGAATTA  
AACCCATGTGGGAGGATGATGCAAAATAAAATGGTGGCAAGTGGATTATTCGGCTGCGGAAGGGCTTGGCCTCCC  
GTTGCTGGGAGAAATCTCATTTTGGCCATGCTGGGGGAACAGTTCATGGTTGGGGAGGAGATCTGTGGGGCTGTGG  
TGTCTGTCCGCTTTCAGGAAGACATTATTTCAATATGGAATAAGACTGCCAGTGACCAAGCAACCACAGCCCGAA  
TCCGGGACACACTTCGGCGAGTGCTTAACCTACCTCCCAACACCATTATGGAATACAAAACCTCACACCGACAGCA  
TCAAAATGCCAGGCAGGCTGGGCCCCAAAGGCTCCTTTTCAAACCTCTGGAAGCCGCGGTTGAATGTGCCAT  
GACCCTCTCCCTCTCTGGATGGCACCATCATTGAAGCTGGCGTCATCGGAGTCTGTTGTTCTGTGGCGTGCTAC  
CTGGAAGATCCTTCTGTGGTGGACAAGAGGAATTGGAAGAGCATTTTATGTTTTAAGAACAGGCTGACACGCAGC  
AGCTACAACAACAGCTGAGATCACTTAATAAATGGTGCTAAACTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 999**

MNNKFDALKDDDSGDHDQNEENSTQKDGEKEKTERDKNQSSSKRKAVVPGPAEHPLQYNYTFWYSRRTPGRPTSS  
QSYEQNIKQIGTFASVEQFWRFYSHMVRPGDLTGHSDFHLFKEGIKPMWEDDANKNGGKWIIRLRKGLASRCWEN  
LILAMLGEQFMVGEEICGAVVSVRFQEDIISIWNKTASDQATTARIRDTLRRVLNLPNTIMEYKTHTDSEIKMPG  
RLGPQRLLFQNLWKPRLNVP

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**FIGURE 1000**

GGCACGAGGAGAGCCTCGAGCCTGCGAGGAGCGCGCCGCCAGCTCCCTGCGTCCCGTCCCGCGTCCCCGCG  
TTCCCGCGTCTCGGATCCGCGCCGCGCATGGCCAGTGAGGAGCTGGCGTGCAAGCTGGAGCGCCGGCTGCGGCGCGA  
GGAGGCCGAGGAGAGTGGCCCCCAGCTGGCTCCCTCGGCGCCCCAGCCCCGGAGCCCCAAGCCCCGAGCCGAGCC  
TCCCGCCCGTGCGCCACGGCCAGCGCCGACGCGGAGCTGAGCGCCCCAGCTGAGCCGGCGGCTGGACATCAACGA  
GGGCGCTGCGCGGCCCCGGCGCTGCAGGGTCTTCAACCCCTACACGGAGTTCCCGGAGTTCAGCCGCCGCTCAT  
CAAGGACCTGGAGAGCATGTTCAAACCTGTATGACGCTGGCGGGGATGGCTTCATCGACCTGATGGAGCTGAAGCT  
GATGATGGAGAAGCTGGGGGCCCCCAGACCCACCTGGGCCTGAAGAGCATGATCAAGGAGGTGGATGAGGACTT  
CGATGGCAAGCTCAGCTTCCGGGAGTTCCTGCTCATTTCCACAAGGCCGCGGAGGGGAGCTGCAGGAGGACAG  
TGGGCTGATGGCGCTGGCAAAGCTTTCTGAGATCGATGTGGCCCTGGAGGGTGTCAAAGGTGCCAAGAAGCTTCTT  
TGAAGCCAAGGTCCAAGCCTTGTCATCGGCCAGTAAGTTTGAAGCAGAGTTGAAAGCTGAGCAAGATGAGCGGAA  
GCGGGAGGAGGAGGAGAGGGCGGCTCCGCCAGGCAGCCTTCCAGAAACTCAAGGCCAAGTTCATACATAGTCTCTG  
CTGACCTTGCCCTCTGCCACAGCTGTGCCTCACAGATGCCCCGAGAAGAGATGACTAGGCATCTTCATCACTGC  
TGTCGGTCCCTCCCTGAGCCAGCATCTCCATCCACCACCCCGTGCCAGCTCCCGTGCCAGCCTTCATTCTCTCC  
AGTGTCCAAGCCCCTCCAGGAGGGTCTGGGGTGGGCCAGATGCCTGCCACCTCTGTCTCCTGCTCTGCTCCT  
CTGCCCTTCTTATAGCCAGAACTTGTATCTTCTCAGCAACCTTCACTTTGTCTTGTCCCTTTACCATTCCCCAT  
CAAAGAGTAGTCTGCTATATCAATTTGTGTAGATATGTCTGCTTTTGGGTCTCAGAGAAAATGCCATTTTC  
TCGGAGAATTCTCTGCACTCTCTCTGCTTCAATTCAACTCCCTGTTCTCATCTTTGGTAGGATTCTGCCAGT  
TGCTTTTGCATCTTCTGTTCTGGGTAATGGTGGGTCTTAATGGAGGCTGGGTGGACCACTGCCCGTCCACTCTT  
CAACAGGAGGAACAGCATGCCACCACAGTAACACATTAGAGAAAGGACAGAGGTCTGCTCCTTCTGCCACCT  
TTCTCCTGGCCCCCTTAGCATTCCCCCAGTCCCTCCCTCTTACCTTGCTCCGTCTATGTCTTCCAGCTCAGCCT  
TTTCCCCACTCTTAAATACTGTACTACTTCACTGTAAGAACGAAAGAATAGTTAGGATACCAATGAGTAAAAGGG  
TTCTGTCTCACTCTGACTCTGTGCAAATTGATTACAGTAGACCGCTGACGTTCCCAAGTGACAGATCCAGGGCC  
TTTCAAACATCCCCAAAGTCATGGCCATACTACCATTAGCCAGTTTCTAACATCTGTTTCAGGGTATCCAGCTG  
TAGATGTTCTTATCCCCATACTTGTGAGTTATTGGGGTTGCTCACAATACTAGGGGTTTTGTTGTATTTTA  
ACAAATATATCCTAATGTATATTTATTCTCTTTTGTAACTGCTGTCTTTACAATAAAGAAATCATCTGCCTTC  
TAAAAAAAAAAAAAAAAAAAAA

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**FIGURE 1001**

MASEELACKLERRLRREEAEESGPQLAPLGAPAPEPKPEPEPPARAPTASADAELSAQLSRRLDINEGAARPRRC  
RVFNPYTEFPFESRRLIKDLESMFKLYDAGRDGFIDLMELKLMMEKLGAPQTHLGLKSMIKEVDEDFDGKLSFRE  
FLLIFHAAAAGELQEDSGLMALAKLSEIDVALEGVKGAKNFFEAKVQALSSASKFEAEKAEQDERKREEEERRL  
RQAAFQKLKANFNT



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**FIGURE 1002**

ATGTCCCCTGCTGGAACCATGGCAACATCACCCGCTCCAAGGCGGAGGAGCTGCTTTCCAGGACAGGCAAGGAC  
GGGAGCTTCCTCGTGCGTGCCAGCGAGTCCATCTCCCGGGCATAACGCGCTCTGCGTGCTGTATCGGAATTGCGTT  
TACACTTACAGAAATTCTGCCCCAATGAAGATGATAAATTCAGTGTTCAGAAATCTGAACCTGACTTCAGCCGATAC  
TGGCAGAGAAAGGGTGTAACGATGAGGAAGGAAGTGCACGCGCAGGATGCAGTAGTAGACAGGGAGCTGGACTC  
AAGGTGTGGGGAGACCACAGGCAAGTCCCTGGAGGCAAAAATCCTCCAGAAGTTGTCAAGAGGGAGAGCGTGGTG  
AGCAGAACGCCCCCTCAGGAAGACAGCTTATGAGGATGGAAGGAATTGCTTCGAGGAGCGATGTGATTGA

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**FIGURE 1003**

MVPCWNHGNITRSKAEELLSRTGKDGSEFLVRASESISRAYALCVLYRNCVYTYRILPNEDDKFTVQKSEPDFSRY  
WQRKGVNDEEGSARAGCSSRQGAGLKVWGDHRQVPGGKNPPEVVKRESVVSRTPLRKTAYEDGRNCFEERCD

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**FIGURE 1004**

CTTCGGGTGTACGTGCTCCGGGATCTTCAGCACCCGCGGCCCATCGCCGTCGCTTGGCTTCTTCTGGACTCAT  
CTGCGCCACTTGTCCGCTTCACACTCCGCCGCCATCATGGTGAAGCTCGCGAAGGCAGGTAAAAATCAAGGTGAC  
CCCAAGAAAATGGCTCCTCCTCAAAGGAGGTAGAAGAAGATAGTGAAGATGAGGAAATGTCAGAAGATGAAGAA  
GATGATAGCAGTGGAGAAGAGGTCGTCATACCTCAGAAGAAAGGCAAGAAGGCTGCTGCAACCTCAGCAAAGAAG  
GTGGTCGTTTCCCCAACAAAAAGGTTGCAGTTGCCACACCAGCCAAGAAAGCAGCTGTCACTCCAGGCAAAAAAG  
GCAGCAGCAACACCTGCCAAGAAGACAGTTACACCAGCCAAGCAGTTACCACACCTGGCAAGAAGGGAGCCACA  
CCAGGCAAAGCATTGGTAGCAACTCCTGGTAAGAAGGGTGCTGCCATCCCAGCCAAGGGGGCAAAGAATGGCAAG  
AATGCCAAGAAGGAAGACAGTGATGAAGAGGAGGATGATGACAGTGAGGAGGATGAGGAGGATGACGAGGACGAG  
GATGAGGATGAAGATGAAATTGAACCAGCAGCGATGAAAGCAGCAGCTGCTGCCCTGCCTCAGAGGATGAGGAC  
GATGAGGATGACGAAGATGATGAGGATGACGATGACGATGAGGAAGATGACTCTGAAGAAGAAGCTATGGGAGACT  
ACACCAGCCAAAGGAAAGAAAGCTGCAAAAGTTGTTCTGTGAAAGCCAAGAACGTGGCTGAGGATGAAGATGAA  
GAAGAGGATGATGAGGACGAGGATGACGACGACGACGAAGATGATGAAGATGATGATGATGAAGATGATGAGGAG  
GAGGAAGAAGAGGAGGAGGAAGAGCCTGTCAAAGAAGCACCTGGAAAACGAAAGAAGGAAATGGCCAAACAGAAA  
GCAGCTCCTGAAGCCAAGAAACAGAAAGTGGAAAGGCACAGAACCGACTACGGCTTCAATCTCTTTGTTGGAAAC  
CTAAACTTTAACAAATCTGCTCCTGAATTAATAAACTGGTATCAGCGATGTTTTTGTCTAAAAATGATCTTGCTGTT  
GTGGATGTCAGAATTGGTATGACTAGGAAATTTGGTTATGTGGATTTTGAATCTGCTGAAGACCTGGAGAAAAGCG  
TTGGAACTCACTGGTTTGAAAGTCTTTGGCAATGAAATTAAC TAGAGAAACCAAAGGAAAAGACAGTAAGAAA  
GAGCGAGATGCGAGAACACTTTTGGCTAAAAATCTCCCTTACAAAGTCACTCAGGATGAATTGAAAGAAGTGTTT  
GAAGATGCTCGGAGATCAGATTAGTCAGCAAGGATGGGAAAAGTAAAGGGATTGCTTATATTGAATTTAAGACA  
GAAGCTGATGCAGAGAAAACCTTTGAAGAAAAGCAGGGAACAGAGATCGATGGGCGATCTATTTCCCTGTACTAT  
ACTGGAGAGAAAAGGTCAAAATCAAGACTATAGAGGTGGAAAGAATAGCACTTGGAGTGGTGAATCAAAAACCTCTG  
GTTTTAAGCAACCTCTCCTACAGTGCAACAGAAGAACTCTTCAGGAAGTATTTGAGAAAAGCAACTTTTATCAAA  
GTACCCCAAGAACCAAAATGGCAAATCTAAAGGGTATGCATTTATAGAGTTTGCTTCATTGCAAGACGCTAAAGAA  
GCTTTAAATTCTGTAAATAAAAGGGAAATTGAGGGCAGAGCAATCAGGCTGGAGTTGCAAGGACCCAGGGGATCA  
CCTAATGCCAGAAGCCAGCCATCCAAAACCTCTGTTTGTCAAAGGCCTGTCTGAGGATACCACTGAAGAGACATTA  
AAGGAGTCATTGACGGCTCCGTTCCGGCAAGGATAGTTACTGACCGGGAAACTGGGTCTCCAAAGGGTTTGGT  
TTTGTAGACTTCAACAGTGAGGAGGATGCCAAAGCTGCCAAGGAGGCCATGGAAGACGGTGAAATTGATGGAAAT  
AAAGTTACCTTGGACTGGGCCAAACCTAAGGGTGAAGGTGGCTTCGGGGGTCGTGGTGGAGGCAGAGGCGGCTTT  
GGAGGACGAGGTGGTGGTAGAGGAGGCCGAGGAGGATTTGGTGGCAGAGGCCGGGGAGGCTTTGGAGGGCGAGGA  
GGCTTCCGAGGAGGCAGAGGAGGAGGAGGTGACCACAAGCCACAAGGAAAGAAGACGAAGTTTGAATAGCTTCTG  
TCCCTCTGCTTTCCCTTTTCCATTTGAAAGAAAGGACTCTGGGGTTTTACTGTTACCTGATCAATGACAGAGCC  
TTCTGAGGACATTCCAAGACAGTATACAGTCCTGTGGTCTCCTTGGAAATCCGTCTAGTTAACATTTCAAGGGCA  
ATACCGTGTGTTGTTTGTACTGGATATTCATATAAACTTTTTAAAGAGTTGAGTGATAGAGCTAACCTTATCTGT  
AAGTTTTGAATTTATATTGTTTCATCCCATGTACAAAACATTTTTTCCTAC

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**FIGURE 1005**

MVKLAKAGKNQGDPKKMAPPPKEVEEDSEDEEMSEDEEDDSSGEEVVIPQKKGKKAATSARKVVSPTKKVAVA  
TPAKKAAVTPGKKAAATPAKKTVTPAKAVTTPGKKGATPGKALVATPGKKGAAIPAKGAKNGKNAKKEDSDEEED  
DDSEDEDEDEDEDEDEDEIEPAAMKAAAAAPASEDEDEDEDEDEDEDDDEEDDSEEEAMETTPAKGKKAAKV  
PVKAKNVAEDEDEEEDDEDEDDDDDEDEDDDE  
TEPTTAFNLFVGNLNFNKSAPELKTGISDVFAKNDLAVVDVRIGMTRKFGYVDFESAEDLEKALELTGLKVFGNE  
IKLEKPKGKDSKKERDARTLLAKNLPYKVTQDELKEVFEDAAEIRLVSKDGKSKGIAYIEFKTEADAETFEKQ  
GTEIDGRSISLYYTGEKGONQDYRGKNSTWSGESKTLVLSNLSYSATEETLQEVFEKATFIKVPQNQNGKSKGY  
AFIEFASFEDAKEALNSCNKREIEGRAIRLELQGPRGSPNARSQPSKTLFVKGLSEDTEETLKESFDGSGVRARI  
VTDRETGSSKGFGFVDFNSEEDAKAAKEAMEDGEIDGNKVTLDWAKPKGEGGFGGGGGGGGFGGGGGGGGGGG  
FGGRGRGGFGGGGGFRGGGGGGGDHKPQGKKTKE

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**FIGURE 1006**

TGAACTGAGCGGCCCTGAGCTGACAGATACACTGCGCAGCTGGAACGGCGAGCGAGCCGACGGGCGAGTGAGGG  
GCGCAGCCATGATCACCTCGGCCGCTGGAATTATTTCTCTTCTGGATGAAGATGAACCACAGCTTAAGGAATTTG  
CACTACACAAATTGAATGCAGTTGTTAATGACTTCTGGGCAGAAATTTCCGAGTCCGTAGACAAAATAGAGGTTT  
TATACGAAGATGAAGGTTTCCGGAGTCGGCAGTTTGCAGCCTTAGTGGCATCTAAAGTATTTATCACCTGGGGG  
CTTTTGAGGAGTCTCTGAATTATGCTCTTGGAGCAGGGGACCTCTTCAATGTCAATGATAACTCTGAATATGTGG  
AAACTATTATAGCAAAATGCATTGATCACTACACCAAACAATGTGTGGAATAATGCAGATTTCCTGAAGGAGAAA  
AAAAACCAATTGACCAGAGATTGGAAGGCATCGTAAATAAAATGTTCCAGCGATGTCTAGATGATCACAAGTATA  
AACAGGCTATTGGCATTGCTCTGGAGACACGAAGACTGGACGCTCTTGAAGAGACCATACTGGAGTGAATGATG  
TCCCAGGAATGTTAGCTTATAGCCTTAAGCTCTGCATGCTTTAATGCAGAATAAACAGTTTCGGAATAAAGTAC  
TAAGAGTTCTAGTTAAAATCTACATGAACCTTGGAGAAACCTGATTTCAATCAATGTTTGTGAGTGTCTAATTTCT  
TAGATGATCCTCAGGCTGTGAGTGATATCTTAGAGAACTGGTAAAGGAAGACAACCTCCTGATGGCATATCAGA  
TTTGTGTTTGATTGTATGAAAGTGCTAGCCAGCAGTTTGTGTCATCTGTAATCCAGAATCTTCGAAGTGTGGCA  
CCCCATTGCTTCTGTGCCTGGATCCACTAATACGGGTACTGTTCCGGGATCAGAGAAAGACAGTGACTCGATGG  
AAACAGAAGAAAAGACAAGCAGTGCAATTTGTAGGAAAGACACCAGAAGCCAGTCCAGAGCCTAAGGACCAGACTT  
TGAAAATGATTAAATTTTAAAGTGGTGAATGGCTATTGAGTTACATCTGCAGTTCTTAATACGAAACAATAATA  
CAGACCTCATGATTCTAAAAAACACAAAGGATGCAGTACGGAATTCTGTATGTCTACTGCAACCGTTATAGCAA  
ACTCTTTTATGCACTGTGGGACAACCAAGTGACCAAGTTTCTTAGAGATAATTGGAATGGTTAGCCAGAGCCACTA  
ACTGGGCAAAATTTACTGCTACAGCCAGTTTGGGTGTAATTCATAAGGGTCATGAAAAAGAACGATTACAGTTAA  
TGGCAACATACCTTCCCAAGGATACTTCTCCAGGATCAGCCTATCAGGAAGGTGGAGGTCTCTATGCACTAGGTC  
TTATTCATGCCAATCATGGTGGTGATATAATTGACTATCTGCTTAATCAGCTTAAGAAGCCAGCAATGATATCG  
TTAGACACGGTGGCAGTCTGGGCCTTGGTTTGGCAGCCATGGGAACGACGTCAAGATGTTTATGATTGTCTAA  
AAACAAACCTTTATCAGGATGATGCAGTAACAGGGGAAGCAGCTGGCCTGGCCCTAGGTTTGGTTATGTTGGGCT  
CTAAAAATGCTCAGGCTATTGAGGACATGGTTGGTTATGCACAAGAACTCAACATGAGAAGATTCTGCGTGGTC  
TTGCAGTTGGCATAGCTTTAGTAATGTATGGGAGGATGGAAGAGGCTGATGCTCTCATTGAATCTCTCTGTCGTG  
ACAAGGACCCAATTTCTCGAAGGTCTGGAATGTATACGTAGCCATGGCTTATTGTGGCTCTGGTAACAACAAG  
CAATTCGACGCCTGTACATGTTGCTGTAAGTGATGTTAATGATGATGTCAGGAGGGCAGCAGTAGAATCACTTG  
GGTTCATTCTATTGAGAACCCTGAACAGTGCCCAAGTGTGTCTCTTTGTTGTGAGAGGTTACAACCCCTCATG  
TGCCTACGGAGCTGCAATGGCCTTGGGATATGCTGTGCTGGTACAGGAAACAAGGAAGCCATTAATTTGCTAG  
AACCAATGACAAACGACCCCGTGAACACGTGAGGCAAGGGGCACTCATAGCTTCAGCTCTCATCATGATCCAGC  
AGACTGAAATCACTTGTCCAAAGGTGAATCAGTTCAGACAGCTGTATTCCAAAGTCATCAATGATAAGCATGATG  
ATGTCATGGCCAAGTTTGGCGCTATTCTGGCCAGGGCATACTGGATGCAGGTGGTCATAATGTCACAATCTCCT  
TGCAGTCCAGGACTGGGCATACTCATATGCCTTCTGTGGTTGGCGTCTTGTATTTACCCAGTTTGGTTCTGGT  
TTCTCTTTTACACTTCTGTCTATTGGCTTATACCCCTACCTGTGTCTATTGGCCTTAACAAGGACTTAAAGATGC  
CGAAAGTTCAGTATAAATCGAACTGTAAACCATCCACATTTGCATATCCTGCCCTCTGGAAGTACCAAAAGAAA  
AAGAAAAGGAAAAGGTTTCTACTGCTGTATTATCTATAACTGCCAAGGCTAAAAAGAAGGAAAAAGAAAAGGAAA  
AAAAGGAGGAGGAGAAAATGGAAGTGGATGAGGCAGAGAAAAAGGAGGAAAAAGAGAAGAAAAAGAACCTGAGC  
CAAACCTCCAGTTATTGGATAACCCAGCCCGAGTTATGCCTGCCAGCTTAAGGTCCTAACCATGCCGAGACCT  
GTAGATACCAGCCTTTCAAACCACTCTCTATTGGAGGCATCATCTTCTGAAGGATACCAAGTGAAGACATTGAGG  
AGCTGGTGAACCTGTGGCAGCACATGGCCCAAAATCGAGGAGGAGGAACAAGAGCCAGAACCCCAAGAACCAT  
TTGAGTATATTGATGATTAAGGGCCAGAGGATCTCACTTGCTTATCTGAAGAAGATTGTCCAGGCTCATATTGGG  
AATGCTTATGAGGAAATTCATGCCGAGACCTGCTATTCAATGCATGTATCGTTGCCTCTGCACTGACCTGAAGAA  
CCCTGTCTCCAAGTCTTGGTTGAAGAGAAGATATGACTGTTGAGTGTGCTCTTTCACAGAAGTGTGTTTCA  
AATAAATATAAGATCTCCAGATGGACAAG

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**FIGURE 1007**

CTGCAAGCCGCCGGAGCCGGGCAACCAGTGGAAGGAGCCTGGGAGAGGCCAGGCCTCCCCGGACTGCTAGCCTGC  
TTTTCTGGGGTCCCTGGAGCCGGAGGAAGAACCAGGATGTTGCTGCCTGCAGAAGCTCAGCTCAGGAAGACTTC  
CAGGAACCTGAGGAGGAGCTGCCACTAACAGCCATATTTCCCAATGAGACTGTGATGACCTTGAAGGGGGTCA  
AAAGCCTGTGATGGAGTCGTACACACTCCTGCTGAGCCCACCGGAGACTCAAGATGAAGGCTGGACCCTTGCCT  
GTCCCTGGCTCTAACCTACAGACTGGGGCCTGGCTCCGTCTTACTGGCCCCAGGTCTCCATGGAGACTGCAGAA  
ACCCCGCCTGCTGGAGGCCTGCCACACTACAGTTACCAGCTAGACAGTGGGGCTTACTAAGACAAGCAGGACC  
TAAACAGTGTCTCCCTGGGAACCTACTCCCCACCCAGCATTTGCTAAGTCTGATCACAGGGAGGTTATTTTGT  
CTCTGTCTCGGTTTCTCTGAGCCACTGAGACAGATGGCTGTCCGCTTTGAGGCTCTGCAGAGCTGTGGCACC  
CATGGTGTGTCTGCAGTGTCTGGGCACATGCATGGGCACCATCGTTGAGAGTGCAGCTGGGAAGAACTCTGAA  
CCAGAAGTCATCAGAGCTGAGGCATGGCCTTGAACATGTCACTCAGTCTCTGGGGCTTCTGTTTCACAAATGCAT  
GAGGGGGCCACCAGCCAGTGGCTTTAAACCAGGGGCAGGTTGTCCCTCCAGGCAGCATTTGAAATGTGTGTGTG  
TTGAGGGGGTACAGTACTGTGGGGGCACCCCTGGCATCTAGTGGGCATCCCAATGTGCAGAACAGTCTCTG  
ACAGCAAAGAATTGGTCCATTCAATGCCAATTGTAGTACCTTTGAGACATTCTGGCTGAGCCAATGCCTTCTCCC  
TGTCAGAGTCCCCAGAGCAGAGAGGGTCAAGGCTTCCCTGGACCTTGGCTCCCAGAGCAAGCCAAAATAAGACT  
ACACTGTTGCCTTGGGGGCTTGTCTGGGCCAGGGCCAAGACGGTCTGCGTGTGCAGGGCCAGGACAGAAATAGCC  
ACACATGCCGGTGAGAACAAAGAGCCTCTTCTTTCTCATGTTGACATCGACTTCTGTGCCAAGTCCTTTGGGT  
ATAAGGATGCTAGGGAATTCCTATAGGCACCAACAGAAGGAAAGCTAGGGGCTTGGACTACTGGGTATAGGACT  
TGCTCTAGCTCTCAGGTCTAGCCCAAGCTCAATGCAAACACAGCCCCTCCGGGCTCTCTGTTTCTGTGAGGTTT  
TGGAATCCCTTCTCTGTGTCCGTGAGTCTGACAGAATCGATGATGTTCCCTTAGAGCTGGGAAATCCATGTGTT  
TATTCACGGAGGGAACACACCATTACCTCCCTTGTCTTCTTGCCTGCCTTGGAGAAATCCAGAGTCTTCGGAAT  
GGCAAAGGCAGCTCCTGGATTTCCCTGGAGGGGAGGCAGTACTGAGGGAAGTAGCTCCCTTCATTATGATGCA  
CAGTTTACGCAGCAGACACAACTGCGCCTACTATTTGCTCGGTGCCCTGCAAGGTGCTGCCTAACCTTTGATTT  
GTTATTTTCTCTCTCCAGGATAGTGCCAAATGGTGCAATGGGAAACCTGTTTGTGGGGGGCTCTAGATCAC  
TGGCTCCAGAACTCCCGCTGCCAGGGTAGCCCCACCCAGCCCCCTTGCTCCTGGACAGCAGTGGGTCTCACC  
TTTAGCCTCTGCCCCAGTTCTGGTCTGACCCAACAGAGGGGCTCTATGATATTAAGAAGGGGCCCTTCTGCTC  
TGTGCCCTCAACCTATTCTCCATAATAGGGAGTCTAATCCTATTCCCTTCCCTGCCTGATGAGGATGGTGTGAGGAT  
GAGGAGGACGGCATCTCATTGGGGGCTTTTGGCAGTGGGCCTCATTTTAACTCTGCAGGGCTGCCTGCCAGTGG  
ATCTATCCAGCTGCTTCCTTGTAGCCAAGAATGAGTTCAATGAATTGTGATTCACTGATTTTATTGATTTTGT  
TAAACAGGGAGACTGGTATTTTTGAAGCTGCTATCATTTTCTATTCTTTATTATTTCTTTGTAATCATCTTA  
TTAAAGTTTTCTTATTTAGTGGG

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**FIGURE 1008**

METVMTLEGGQKPVME SYTLLLSP PETQDEG WTLALSLALTYRLGPGSVLLAPRSPWRLQKPPPAGGLPHSQLPA  
RQWGLLRQAGPKTVSPLGTYSPPSIC

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**FIGURE 1009**

GGGACGCGAGCGGGATCCAAACTTCCGGTGCCTGCAGAGCTCGGAGCGGCGGAGGCAGAGACCGAGGCTGCACCG  
GCAGAGGCTGCGGGGCGGACGCGCGGGCCGGCGCAGCCATGGTGAAGATTAGCTTCCAGCCCGCCGTGGCTGGCA  
TCAAGGGCGACAAGGCTGACAAGGCGTCGGCGTCGGCCCCCTGCGCCGGCCCTCGGCCACCGAGATCCTGCTGACGC  
CGGCTAGGGAGGAGCAGCCCCCACAACATCGATCCAAGAGGGGGGGCTCAGTGGGCGGCGTGTGCTACCTGTCTGA  
TGGGCATGGTCTGTGCTCATGGGCCTCGTGTTCCGCTCTGTCTACATCTACAGATACTTCTTCTTGGCGAGC  
TGGCCCGAGATAACTTCTTCCGCTGTGGTGTGCTGTATGAGGACTCCCTGTCTCCAGGTCCGGACTCAGATGG  
AGCTGGAAGAGGATGTGAAAATCTACCTCGACGAGAACTACGAGCGCATCAACGTGCCTGTGCCCCAGTTTGGCG  
GCGGTGACCCTGCAGACATCATCCATGACTTCCAGCGGGGTCTGACTGCGTACCATGATATCTCCCTGGACAAGT  
GCTATGTCATCGAACTCAACACCACCATTGTGCTGCCCCCTCGCAACTTCTGGGAGCTCCTCATGAACGTGAAGA  
GGGGGACCTACCTGCGCGAGACGTACATCATCCAGGAGGAGATGGTGGTCACGGAGCATGTGAGTACAAGGAGG  
CCCTGGGGTCTTTCATCTACCACCTGTGCAACGGGAAAGACACCTACCGGCTCCGGCGCCGGGCAACGCGGAGGC  
GGATCAACAAGCGTGGGGCCAAGAAGTGCATGCCATCCGCCACTTCGAGAACACCTTCGTGGTGGAGACGCTCA  
TCTGCGGGGTGGTGTGAGGCCCTCCTCCCCCAGAACCCCTGCCGTGTTCTTCTTCTTCTTCCGGCTGCTCT  
CTGGCCCTCCTCCTTCCCCCTGCTTAGCTTGACTTTGGACGCGTTTCTATAGAGGTGACATGTCTCTCCATTCC  
TCTCCAACCCTGCCCACCTCCTGTACCAGAGCTGTGATCTCTCGGTGGGGGGCCATCTCTGCTGACCTGGGTG  
TGGCGGAGGGAGAGGCGATGCTGCAAAGTGTCTTCTGTGTCCCACTGTCTTGAAGCTGGGCCTGCCAAAGCCTGG  
GCCCACAGCTGCACCGGCAGCCCAAGGGGAAGGACCGGTTGGGGGAGCCGGGCATGTGAGGCCCTGGGCAAGGGG  
ATGGGGCTGTGGGGGCGGGGCGGCATGGGCTTCAGAAGTATCTGCACAATTAGAAAAGTCTCAGAAGCTTTTTC  
TTGGAGGGTACACTTTCTTCACTGTCCCTATTCTAGACCTGGGGCTTGAGCTGAGGATGGGACGATGTGCCCAG  
GGAGGGACCCACCAGAGCACAAGAGAAGGTGGCTACCTGGGGGTGTCCAGGGACTCTGTGAGTGCCTTCAGCCC  
ACCAGCAGGAGCTTGGAGTTTGGGGAGTGGGGATGAGTCCGTCAAGCACAAGTCTCTGAGTGGAAACCAAGA  
AGCAAGGAGCTAGGACCCCCAGTCTGCCCCCAGGAGCACAAGCAGGGTCCCCTCAGTCAAGGCAGTGGGATGG  
GCGGCTGAGGAACGGGGCAGGCAAGGTCACTGCTCAGTCACGTCCACGGGGGACGAGCCGTGGGTTCTGCTGAGT  
AGGTGGAGCTCATTGCTTTCTCCAAGCTTGGAAGTGTCTTGAAGATAACACAGAGGGAAGGGAGAGCCACCTG  
GTACTTGTCCACCTGCCTCCTCTGTTCTGAAATTCATCCCCCTCAGCTTAGGGGAATGCACCTTTTCCCTTT  
CCTTCTCACTTTTGCATGTTTTTACTGATCATTCGATATGCTAACCCTTCTCAGCCCTGAGCCTTGGAGAGGAGG  
GCTGTAACGCCTTCAGTCAGTCTCTGGGGATGAACTCTTAAATGCTTTGTATATTTTCTCAATTAGATCTCTTT  
TCAGAAGTGTCTATAGAACAATAAAAATCTTTTACTTCTG



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**FIGURE 1010**

MVKISFQPAVAGIKGDKADKASASAPAPASATEILLTPAREEQPPQHRSKRGGSVGGVCYLSMGMVVLLMGLVFA  
SVYIYRYFFLAQLARDNFFRCGVLYEDSLSSQVRTQMELEEDVKIYLDENYERINVPVPQFGGGDPADIIHDFQR  
GLTAYHDISLDKCYVIELNTTIVLPPRNFWELLMNVKRGTYLPQTYIIQEEMVVTEHVSDKEALGSFIYHLCNGK  
DTYRLRRRATRRRINKRGAKNCNAIRHFENTFVVETLICGVV

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**FIGURE 1011**

GATCACCACCATCGAGGCAGTGAAGTGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGC  
TGAGCACCTCCAGCGAGAAGTTGAGGGAGAAAGGCAGGCCCGGGAAGAGAGGTATGAAGGTTGTTGAAAATCGGG  
CCTTAAAGATGAAGAAAAGATGGAATCCAGGAAATCTAACTCCAAGAAGCTAAGCACATTGCAGAAGAGGCAG  
ATAGGAAGTATGAAGAGGTGGCTCATAAGTTGGTGATCATTGAAGGAGACTTGGAAGGCACGGAGGAACGAGCTG  
AGCTGGGAGAGTCCC GTTGCCAAGAGATGGATGAGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTG  
CTGCTGAAGAAATGTACTCTCAAAAAGAAGACAAATATGAGGAAGAGATCAAGATTCTTACTGATAA ACTCAAGG  
AGGCAGAGACCAGTGCTGAGTTTGCTGAGAGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATA  
AACTGAAACGCACCAAAGAGGAGCACCTCTGTACACAAAGGATGCTGGACCAGACTCTGATTGACCTGAATGAGA  
TGTAGAACGCCCCAGTCCCACCCTGCTGCTGCTCCTCCTCTTCTCAGAGAATCCAGCTGGGCTAGAGGCTGAGC  
ACCTTTGGAACAACATTTAAGGGAATGTGAGCACAATGCATAATGTCTTTAAAAGCATGTTGTGATG

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**FIGURE 1012**

GTTTTCCTGCTAGCATCTCCCTGTAACCTCTCCCAATCTTGAGGAGTGATCCCTGTCCCAGCCCCTGGAAAGGGG  
CAGGAACGACAACTCAAAGTCCAGGATGTTTACCATTGACAAGAGCCATGGAAGAGGCTCTTTTTCAGCACTTCA  
TGCACCAGAAGCTGGGGATCGCCTATGCCATACACAAGCCATTTCCCTTCTTTGAAGGCCTCTAGACAACCTCCA  
TCATCACTAAGAGAATGTACATGGAATCTCTGGAAGCCTGTAGAAATTTGATCCCTGTATCCAGAGTGGTGCACA  
ACATTCTCACCCAACTGGAGAGGACTTTTAACCTGTCTCTTCTGGTGACATTGTTTCAAGTCAAATTAACCTGCGTG  
AATATCCCAATCTGGTGACGATTTACAGAAGCTTCAAACGTGTTGGTGCTTCTATGAACGGCAGAGCAGAGACA  
CACCAATCCTACTTGAAGCCCCAACTGGCCTAGCAGAAGGAAGCTCCCTCCATACCCCACTGGCGCTGCCCCAC  
CACACCCCCCTCAACCAAGCTGTTTACCCTGTGCGCCAAGAGTCAGTGAGCCTGGAACATCCTCCCAGCAAAGCG  
ATGAGATCCTGAGTGAGTCGCCCAGCCCATCTGACCCTGTCTGCTCTCCCTGCACTCATCCAGGAAGGAAGAA  
GCACTTCAGTGACCAATGACAAGTTAACAATCCAAAATGAATGCGGAAGAAGACTCAGAAGAGATGCCAGCCTCC  
TCACTAGCACTGTGCAAGTGGCCAGTGACAACCTGATCCCCCAAATAAGAGATAAAGAAGACCTCAAGAGATGC  
CCCACTCTCCCTTGGGCTCTATGCCAGAGATAAGAGATAATTCTCCAGAACCAAATGACCCAGAAGAGCCCCAGG  
AGGTGTCCAGCACACCTTCAGACAAGAAAGGAAAGAAAGAAAGATGTATCTGGTCAACTCCAAAAGGAGAC  
ATAAGAAAAAAGCCTCCCAAGAGGGACAGCCTCATCTAGACACGGAATCCAAAAGAAGCTCAAAAGGGTGGATC  
AGGTTCTCAAAAGAAAGATGACTCAACTTGTAACCTCCACGGTAGAGACAAGGGCCCCAAAGGCGAGAAGTGAAT  
GTGCCGAAAGTCGAGATCAGAGGAGATCATTGATGGCACTTCAGAAATGAATGAAGGAAAGAGTCCAGAAGA  
CGCCTAGTACACCACGAAGGGTCACACAAGGGGCAGCCTCACCTGGGCATGGCATCCAAGAGAAGTCCAAGTGG  
TGGATAAGGTGACTCAAAGGAAAGACGACTCAACCTGGAACCTCAGAGGTATGATGAGGGTCCAAAAGGCAAGAA  
CTAAATGTGCCCCGAAAGTCCAGATCGAAAGAAAAAGAAAGGAGAAAGATATCTGTCAAGCTCAAAAGGAGAT  
TTCAGAAAAATATTACCGAAGAGGAAAACCCAAAAGTGACACTGTGGATTTTCACTGTTCTAAGCTCCCCGTGA  
CCTGTGGTGAGGCGAAAGGGATTTTATATAAGAAGAAATGAAACACGGATCCTCAGTGAAGTGCAATCGGAATG  
AGGATGGAACTTGTTAACACCAAATGAATTTGAAGTCGAAGGAAAAGGAAGGAACGCAAAGAAGTGGAAACGGA  
ATATACGTTGTGAAGGAATGACCCTAGGAGAGCTGCTGAAGCGGAAAACTCGGATGAATGCGAGGTGTGCTGTC  
AAGGGGGACAACCTTCTGCTGCGGTACTTGTCCACGAGTCTTCCATGAGGACTGTCACATCCCCCTGTGGAAG  
CCAAGAGGATGCTGTGGAGTTGCACCTTCTGCAGGATGAAGAGGTCTTCAGGAAGCCAACAGTGCCATCATGTAT  
CTAAGACCTGGAGAGGCAGATGCAGCCTCAGGACCAGCTGATTGAGATTACGGTGAGCCCTTTTCAGGAAGCAA  
TGTGTTTGGACCTGGTTAAGGAAAGGCTGATTACGGAATGTACACGGTGCCATGGTTTGTGCGAGACATGCGCC  
TGATGTTTCGCAACCATAAAACATTTTACAAGGCTTCTGACTTTGGCCAGGTAGGACTTGACTTAGAGGCAGAAT  
TTGAAAAAGATCTCAAAGACGTGCTCGGTTTTTATGAAGCCAATGACGGCGGTTTTCTGGACTCTTCTTGAACCT  
GTTCTGTAAAGACTGAAGCATCCCCACCTCAGGATTCAGCTGATGGGACCCTGGCTTGGACTGTTGATTGCCAGT  
GAGTCTGGGATGTAATTGGCTGCCCTCAGGACCCAAACCCAGACACTTCATAGGATTATCACACCCTCCATCTTT  
ATTCTTTCTTTTACCTTTAAAGTCTATATCTA

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**FIGURE 1013**

MFTMTRAMEEALFQHFMHQKLGIAAYAIHKPFPFFEGLLDNSIITKRMYESLEACRNLIIPVSRVVHNILTQLERT  
FNLSLLVTLFSQINLREYPNLVTIYRSFKRVGASYERQSRDTPILLEAPTGLAEGSSLHTPLALPPPQPPQPPSCS  
PCAPRVSEPGTSSQQSDEILSESPSPSDPVLPLPALIQEGRSTSVTNDKLTSKMNAEEDSEEMPSLLTSTVQVAS  
DNLIPQIRDKEDPQEMPHSPLGSMPEIRDNSPEPNDPEEPQEVSSTPSDKKGKKRRCIWSTPKRRHKKKSLPRG  
TASSRHGIQKKLKRVDQVPQKKDDSTCNSTVETRAQKARTECARKSRSEEIIDGTSEMNEGKRSQKTPSTPRRVT  
QGAASPGHGIQEKLVVDKVTQRKDDSTWNSEVMRVQKARTKARKSRSEKKEKKEKDICSSESKRRFQKNIHRRG  
KPKSDTVDFHCSKLPVTCGEAKGILYKKMKHGSSVKCIRNEDGTWLTNPNEFEVEGKGRNAKNWKNIRCEGMTL  
GELLKRKNSDECEVCCQGGQLLCCGTCPRVFHEDCHIPPEAKRMLWSCTFCRMKRSSGSQQCHHVSKTLERQMQ  
PQDQLIRDYGEPPQEAMWLDLVKERLITEMYTVAVFVRDMRLMFRNHKTFYKASDFGQVGLDLEAEFEKDLKDVL  
GFHEANDGGFWTLP

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**FIGURE 1014**

GTTTTGCCTGCTAGCATCTCCCTGTAACCTCTCCCAATCTTGAGGAGTGATCCCTGTCCCAGCCCCTGGAAAGGGG  
CAGGAACGACAACTCAAAGTCCAGGATGTTTACCATGACAAGAGCCATGGAAGAGGCTCTTTTTCAGCACTTCA  
TGCACCAGAAGCTGGGGATCGCCTATGCCATACACAAGCCATTTCCCTTCTTTGAAGGCCTCCTAGACAACCTCCA  
TCATCACTAAGAGAATGTACATGGAATCTCTGGAAGCCTGTAGAAATTTGATCCCTGTATCCAGAGTGGTGACACA  
ACATTCTCACCCAACTGGAGAGGACTTTTAACCTGTCTCTTCTGGTGACATTGTTTCAGTCAAATTAACCTGCGTG  
AATATCCCAATCTGGTGACGATTTACAGAAGCTTCAAACGTGTTGGTGCTTCCCTATGAACGGCAGAGCAGAGACA  
CACCAATCCTACTTGAAGCCCCAACTGGCCTAGCAGAAGGAAGCTCCCTCCATACCCCACTGGCGCTGCCCCAC  
CACACCCCCCTCAACCAAGCTGTTACCCCTGTGCGCCAAGAGTCAGTGAGCCTGGAACATCCTCCCAGCAAAGCG  
ATGAGATCCTGAGTGAGTCGCCCAGCCCCTCTGACCCTGTCTGCTCTCCCTGCACTCATCCAGGAAGGAAGAA  
GCACTTCAGTGACCAATGACAAGTTAACATCCAAAATGAATGCGGAAGAAGACTCAGAAGAGATGCCAGCCTCC  
TCACTAGCACTGTGCAAGTGGCCAGTGACAACCTGATCCCCCAAATAAGAGATAAAGAAGACCTCAAGAGATGC  
CCCCTCTCCCTTGGGCTCTATGCCAGAGATAAGAGATAATTCTCCAGAACCAAATGACCCAGAAGAGCCCCAGG  
AGGTGTCCAGCACACCTTCAGACAAGAAAGGAAAGAAAAGAAAAGATGTATCTGGTCAACTCCAAAAGGAGAC  
ATAAGAAAAAAGCCTCCCAAGAGGGACAGCCTCATCTAGACACGGAATCCAAAAGAAGCTCAAAAGGGTGGATC  
AGGTTCTCAAAAAGAAAGATGACTCAACTTGTAACCTCCACGGTAGAGACAAGGGCCCCAAAAGGCGAGAATGAAT  
GTGCCCCGAAAGTCGAGATCAGAGGAGATCATTGATGGCACTTCAGAAATGAATGAAGGAAAGAGTCCCAGAAGA  
CGCCTAGTACACCACGAAGGGTCACACAAGGGGCAGCCTCACCTGGGCATGGCATCCAAGAGAAGCTCCAAGTGG  
TGGATAAGGTGACTCAAAGGAAAGACGACTCAACCTGGAACCTCAGAGGTCATGATGAGGGTCCAAAAGGCAAGAA  
CTAAATGTGCCCCGAAAGTCCAGATCGAAAGAAAAGAAAAGGAGAAAGATATCTGTTCAAGCTCAAAAAGGAGAT  
TTCAGAAAAATATTACCCGAAGAGGAAAACCCAAAAGTGACACTGTGGATTTTCACTGTTCTAAGCTCCCCGTGA  
CCTGTGGTGAGGCGAAAGGGATTTTATATAAGAAGAAAATGAAACACGGATCCTCAGTGAAGTGCATTTCGGAATG  
AGGATGGAACTTGGTTAACACCAAATGAATTTGAAGTCGAAGGAAAAGGAAGAACGCAAAGAAGTGGAAACGGA  
ATATACGTTGTGAAGGAATGACCCTAGGAGAGCTGCTGAAGAGTGGACTTTTGCTCTGTCTCCAAGAATAAATC  
TCAAGAGAGAGTTAAATAGCAAGTGAATTTCTACTACCCTCTCAGTCACCATGTTGCAGACTTTCCCTGTCTGGA  
GGCTCACCTTAGAGCTTCTGAGTTTCCAAGCTCTGAGTCACCTCCACATTTGGGCATGGCATCTTCAAAACAATT  
AATTTGCATAGTTAATTTGGGATGGGGAAGCAAATGACTCTAAATAAAAAATTAATGAAAAGCTCAAAAAAAA  
AAAAA

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**FIGURE 1015**

MFTMTRAMEEALFQHFHQKLGIAIAIHKPFPFFEGLLDNSIITKRMYESLEACRNLI PVSRVVHNILTQLERT  
FNLSLLVTLFSQINLREYPNLVTIYRSFKRVGASIERQSRDTPILLEAPTGLAEGSSLHTPLALPPPQPPQPSCS  
PCAPRVSEPGTSSQQSDEILSESPSPSDPVLPLPALIQEGRSTSVTNDKLTSKMNAEEDSEEMPSLLTSTVQVAS  
DNLIPQIRDKEDPQEMPHSPLGSMPEIRDNSPEPNDPEEPQEVSSTPSDKKGKKRRCIWS TPKRRHKKKSLPRG  
TASSRHGIQKKLKRVDQVPQKKDDSTCNSTVETRAQKARTECARKSRSEEIIDGTSEMNEGKRSQKTPSTPRRVT  
QGAASPGHGIQEKLQVVDKVTQRKDDSTWNSEVMRVQKARTKCARКСRSKEKKKEKD ICSSSKRRFQKNIHRRG  
KPKSDTVDFHCSKLPVTCGEAKGILYKKMKKHGSSVKCIRNEDGTWLT PNEFEVEGKGRNAKNWKRNI RCEGMITL  
GELLKSGLLLCPPRINLKRELNSK

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**FIGURE 1016**

GTTTTGCCTGCTAGCATCTCCCTGTAACCTCTCCCAATCTTGAGGAGTGATCCCTGTCCCAGCCCCTGGAAAGGGG  
CAGGAACGACAAACTCAAAGTCCAGGATGTTTACCATGACAAGAGCCATGGAAGAGGCTCTTTTTCAGCACTTCA  
TGCACCAGAAGCTGGGGATCGCCTATGCCATACACAAGCCATTTCCCTTCTTTGAAGGCCTCCTAGACAACCTCCA  
TCATCACTAAGAGAATGTACATGGAATCTCTGGAAGCCTGTAGAAATTTGATCCCTGTATCCAGAGTGGTGCACA  
ACATTCTCACCCAACTGGAGAGGACTTTTAACTGTCTCTTCTGGTGACATTGTTTCAGTCAAATTAACCTGCGTG  
AATATCCCAATCTGGTGACGATTTACAGAAGCTTCAAACGTGTTGGTGCTTCCTATGAACGGCAGAGCAGAGACA  
CACCAATCCTACTTGAAGCCTCAACTGGCCTAGCAGAAGGAGCTCCCTCCATACCCCACTGGCGCTGCCCCAC  
CACAACCCCTCAACCAAGCTGTTACCCCTGTGCGCAAGAGTCAGTGAGCCTGGAACATCCTCCCAGCAAAGCG  
ATGAGATCCTGAGTGAGTCGCCCAGCCCCTGACCCCTGTCTGCTGCTCTCCCTGCACTCATCCAGGAAGGAAGAA  
GCACTTCAGTGACCAATGACAAGTTAACATCCAAAATGAATGCGGAAGAAGACTCAGAAGAGATGCCAGCCTCC  
TCACTAGCACTGTGCAAGTGCCAGTGACAACCTGATCCCCCAAATAAGAGATAAAGAAGACCTCAAGAGATGC  
CCCCTCTCCCTTGGGCTCTATGCCAGAGATAAGAGATAATTCTCCAGAACCAATGACCCAGAAGAGCCCCAGG  
AGGTGTCCAGCACACCTTCAGACAAGAAAGGAAAGAAAAGAAAGATGTATCTGGTCAACTCCAAAAGGAGAC  
ATAAGAAAAAAGCCTCCCAAGAGGGACAGCCTCATCTAGACACGGAATCCAAAAGAAGCTCAAAAGGGTGGATC  
AGGTTCTCTCAAAAGAAAGATGACTCAACTTGTAACCTCCACGGTAGAGACAAGGGCCCAAAAGGCGAGAAGTGAAT  
GTGCCGAAAGTCGAGATCAGAGGAGATCATTGATGGCACTTCAGAAATGAATGAAGGAAAGAGGTCCCAAGAAG  
CGCCTAGTACACCACGAAGGGTCACACAAGGGGCAGCCTCACCTGGGCATGGCATCCAAGAGAAGCTCCAAGTGG  
TGGATAAGGTGACTCAAAGGAAAGACGACTCAACCTGGAACCTCAGAGGTATGATGAGGGTCCAAAAGGCAAGAA  
CTAAATGTGCCCCGAAAGTCCAGATCGAAAGAAAAGAAAAGGAGAAAGATATCTGTTCAAGCTCAAAAAGGAGAT  
TTCAGAAAAATATTCACCGAAGAGGAAAACCCAAAAGTGACACTGTGGATTTTCACTGTTCTAAGCTCCCCGTGA  
CCTGTGGTGAGGCGAAAGGGATTTTATATAAGAAGAAAATGAAACACGGATCCTCAGTGAAGTGCATTTCGAATG  
AGGATGGAACCTTGGTTAACACCAATGAATTTGAAGTCGAAGGAAAAGGAAGGAACGCAAAGAAGTGGAAACGGA  
ATATACGTTGTGAAGGAATGACCCTAGGAGAGCTGCTGAAGCGGAAAACTCGGATGAATGCGAGGTGTGCTGTC  
AAGGGGGACAACTTCTCTGCTGCGGTACTTGTCCACGAGTCTTCCATGAGGACTGTCACATCCCCCTGTGGAAG  
CCAAGAGGATGCTGTGGAGTTGCACCTTCTGCAGGATGAAGAGGTCTTCAGGAAGCCACAGTGCCATCATGTAT  
CTAAGACCTGGAGAGGCAGATGCAGCCTCAGGACCAGCTGAAATGTGAGTTCTCTCTTGAAGGCCTACTGTC  
ATCCACAAAGCTCCTTTTTTACGGGCATCCCATTTAATATTCGAGATTACGGTGAGCCCTTTCAGGAAGCAATGT  
GGTTGGACCTGGTTAAGGAAAGGCTGATTACGGAATGTACACGGTGCGATGGTTTGTGCGAGACATGCGCCTGA  
TGTTTCGCAACCATAAAACATTTTACAAGGCTTCTGACTTTGGCCAGGTAGGACTTGACTTAGAGGCAGAATTTG  
AAAAAGATCTCAAAGACGTGCTCGGTTTTTATGAAGCCAATGACGGCGGTTTTCTGGACTCTTCCTTGACCCCTGTT  
CTGTAAAGACTGAAGCATCCCCACCTCAGGATTACAGCTGATGGGACCCCTGGCTTGGACTGTTGATTGCCAGTGAG  
TCTGGGATGTAATTGGCTGCCCTCAGGACCCAAACCCAGACACTTCATAGGATTATCACACCCCTCCATCTTTATT  
CTTCTTTTTTACCTTTAAAAGTCTATATCTA

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**FIGURE 1017**

MFTMTRAMEEALFQHFMHQKLGIAIAIHKPFPFFEGLLDNSIITKRMYESLEACRNLI PVSRVVHNILTQLERT  
FNLSLLVTLFSQINLREYPNLVTIYRSFKRVGASYERQSRDTPILLEAPTGLAEGSSLHTPLALPPPQPPQPPSCS  
PCAPRVSEPGTSSQQSDEILSESPSPSDPVLPLPALIQEGRSTSVTNDKLTSKMNAEEDSEEMP SLLTSTVQVAS  
DNLIPQIRDKEDPQEMPHSPLGSMPEIRDNSPEPNDPEEPQEVSSSTPSDKKGKKRRCIWSTPKRRHKKKSLPRG  
TASSRHGIQKKLKRVDQVPQKKDDSTCNSTVETRAQKARTECARKSRSEEIIDGTSEMNEGKRSQKTPSTPRRVT  
QGAASPGHGIQEKLVVDKVTQRKDDSTWNSEVMRVQKARTKARKSRSEKKKEKD ICSSSKRRFQKNIHRRG  
KPKSDTVDFHCSKLPVTCGEAKGILYKKMKHGS SVK CIRNEDGTWLT PNEFEVEGKGRNAKNWKRNI RCEG MTL  
GELLKRKNSDECEVCCQGGQLCCGTCPRVFHEDCHIPPVEAKRMLWSC TFCRMKRSSGSQQCHHVSKTLERQMQ  
PQDQLKCEFLLLKAYCHPQSSFFT GIPFNIRDYGEPPQEAMWLDLVKERLITEMYTVAWFVRDMRLMFRNHKTFY  
KASDFGQVGLDLEAEFEKDLKDVLGFHEANDGGFWTL P



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## FIGURE 1018

ATGCTGGGTACGCTGCGCGCCATGGAGGGCGAGGACGTGGAAGACGACCAGCTGCTGCAGAAGCTCAGGGCCAGT  
CGCCGCCGCTTCCAGAGGCGCATGCAGCGGCTGATAGAGAAGTACAACCAGCCCTTCGAGGACACCCCGGTGGTG  
CAAATGGCCACGCTGACCTACGAGACGCCACAGGGATTGAGAATTTGGGGTGAAGACTAATAAAGGAAAGAAAC  
AAAGGAGAGATCCAGGACTCCTCCATGAAGCCCGCGGACAGGACAGATGGCTCCGTGCAAGCTGCAGCCTGGGGT  
CCTGAGCTTCCCTCGCACCGCACAGTCCTGGGAGCCGATTCAAAAAGCGGTGAGGTGATGCCAGCTCAGACCAG  
GAAGAGTCAGTTGCTTGGGCCTTAGCACCTGCAGTGCCTCAAAGCCCTTTGAAAAATGAATTAAGAAGGAAATAC  
TTGACCCAAGTGGATATACTGCTACAAAGGTGCAGAGTATTTTGAGTGTGCAGGTAACAGAGCTGGAAGGGATGTA  
CGTGTGACTCCGCTGCCTTCACTGGCCTCACCTGCCGTGCCTGCCCCGGATACTGCAGTCGTATCTCCGGAAAG  
AGTCTTGGTGACCCAGCGAAACCAGCTTCATCTCCAGAGAATGGGATCCTTTGCATCCTTCTCCACAGACATG  
GCCTTAGTACCTAGAAATGACAGCCTCTCCCTACAAGAGACCACTAGCAGCAGCTTCTTAAGCAGCCAGCCCTTT  
GAAGATGATGACATTTGCAATGTGACCATCAGTGACCTGTACGCAGGATGCTGCACTCCATGAGCCGGCTGTTG  
AGCACAAAGCCATCAAGCATCATCTCCACCAAAACGTTTCATCATGCAAAACCTGGAAGTGCAGGAGGAGGCACAGA  
TATAAGAGCAGGATGAACAAAACATATTGCAAGGAGCCAGACGTTCTCAGAGGAGCTCCAAGGAGAACTTCATA  
CCCTGCTCTGAGCCTGTGAAAGGGACAGGGGCATTAAGAGATTGCAAGAACGTATTAGATGTTTCTGCGGTAAG  
ACAGGTTTAAAATTGGAAAAAGCTTTTCTTGAAGTCAACAGACCCCAATCCATAAGTTAGATCCAAGTTGGAAG  
GAGCGCAAAGTGACACCTCGAAGTATTTCTTCTGATTTACTTCGACTCCAGTGCAACATATAATCTTGATGAG  
GAAAATAGATTTAGGACATTAATAATGGTTAATTTCTCCTGTAAAAATAGTTTCCAGACCAACAATACGACAGGGC  
CATGGAGAGAACCCTCAGAGGGAGATTGAAATCCGATTGATCAGCTTCATCGGGAATATTGCCGTGAGTCCCAGG  
AACCAGCCTCGCCGGATGTGCCTCCCGGACTCCTGGGCCATGAACATGTACAGAGGGGGTCTCGCAGTCCCTGGT  
GGCCTTCAGGGCTTAGAAACCCGACAGGCTGAGTTTACCTTCCAGCAAAGCAAAGCAAAGGTTTAAAGTGAGGCT  
TTTGAAAACCTAGGCAAAGATCTCTGGAAGCAGGTAGGTGCCTGCCCAAGAGCGATTTCATCTTCACTTCCA  
AAGACCAACCCACACACAGCGCAACTCGCCCGCAGCAGACATCTGACCTTACGTTCAAGGGAATAGTTCTGGA  
ATATTTAGAAAGTCAGTGTCAACCCAGCAAACCTCTTTCAGTCCCAGATAAAGAAGTGCCAGGCCACGGAAGGAAT  
CGTTACGATGAAATTAAAGAAGAAATTTGACAAGCTTCATCAAAAGTATTGCCTCAAATCTCCTGGGCAGATGACA  
GTGCCTTTATGTATTGGAGTGTCTACAGATAAAGCAAGTATGGAAGTTCGATATCAAACAGAAGGCTTCTTAGGA  
AAATTAAATCCAGACCCTCACTTCCAGGGTTTCCAGAAGTTGCCATCATCACCCCTGGGGTGCAGAAAAAGTCTA  
CTGGGCTCAACTGCAATTGAGGCTCCTTTCATCTACATGTGTGCTCGTGCCATCACGAGGGATGGCAGGAGGAC  
CATCAGTTCCTTGCAAAAAGACCCAGGCTATCAGAACCCAGGGCTCCGGACGCCAGGGCAATTCCCTGGGTGCC  
TCAGATGGGGTGGACAACACCGTCAGACCGGAGACCAGGGCAGCTCTTACAGCCCACTCAGAAGAGAGAGGA  
GAGAACACGTCTTACAGGATGGAAGAGAAAAGTGATTTCATGCTAGAAAAATTGGAACTAAAAGTGTGTAGCTA  
GGTTATTTTCGGAGTGTTATTTATCTTCCCACTTGCTCTGTGTTGTATTTTGTGTTTTGATTCTTGAGAC  
TGTGAGGACTTGGTTGACTTCTCTGCCCTTAAAGTAAATATTAGTGAAATTGGTTCCATCAGAGATAACCTCGAG  
TTCTTGGTGTAGAAATTATGTGAATAAAGTTGCTCAATTAGAAAAA

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**FIGURE 1019**

MLHMSRLLSTKPSSIISTKTFIMQNWNCRRRHRYKSRMNKTYCKGARRSQRSSKENFIPCSEPVKGTGALRDCK  
NVLDVSCRKTGLKLEKAFLEVNRPQIHKLDPWKERKVTPSKYSSLIYFDSSATYNLDEENRERTLKWLISPVKI  
VSRPTIRQGHGENRQREIEIRFDQLHREYCLSPRNQPRRMCLPDSWAMNMYRGGPASPGGLOGLETRRLSLPSSK  
AKAKSLSEAFENLGKRSLEAGRCLPKSDSSSSLPKTNPTHSA TRPQQTSDLHVQGNSSGIFRKS VSPSKTLSVPD  
KEVPGHGRNRYDEIKEEFDKLHQYCLKSPGQMTVPLCIGVSTDKASMEVRYQTEGFLGKLNPDPHFQGFQKLPS  
SPLGCRKSLLGSTAIEAPSSTCVARAITRDGTRDHQFPKRPRLSEPQGSGRQGNLGLASDGDNTVVRPGDQGSS  
SQPNSEERGENTSYRMEEKSDFMLEKLET KSV

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**FIGURE 1020**

AAGACCGTCCCGGATGGCCTCGGGGACTGCCAGTGTGTGGAGGTGAGCTCCGGGATTGCCGGCATTCCCGCTTCT  
GCTGGTTGCTTTCATGCTGCAGGCTGCGGGCCGTCAGCCCTCGCTCGCATTGGTGGCGCTGAGGTGCCGGGCGAGCA  
AGTGACATGTCGTCGGGCCTCCGCGCCGCTGACTTCCCCCGCTGGAAGCGCCACATCTCGGAGCAACTGAGGCGC  
CGGGACCGGCTGCAGAGACAGGCGTTCGAGGAGATCATCTGCAGTATAACAAATTGCTGGAAAAGTCAGATCTT  
CATTCACTGTTGGCCAGAACTACAGGCTGAAAAGCATGACGTACCAAACAGGCACGAGATAAGTCCCGGACAT  
GATGGCACATGGAATGACAATCAGCTACAAGAAATGGCCCAACTGAGGATTAAGCACCAAGAGGAACTGACTGAA  
TTACACAAGAAACGTGGGGAGTTAGCTCAACTGGTGATTGACCTGAATAACCAAATGCAGCGGAAGGACAGGGAG  
ATGCAGAAAGAGCTTGCAAGACAGCAAAGGAACCTCTACCAGTCGAACAGGATGATGACATTGAGGTCATTGTG  
GATGAAACTTCTGATCACACAGAAGAGACCTCTCTGTGCGAGCCATCAGCAGAGCAGCCACTAAGCGACTCTCG  
CAGCCTGCTGGAGGCCCTTCTGGATTCTGTCACTAATATCTTTGGGAGACGCTCTGTCTCTTCCCTCCAGTCCCC  
CAGGACAATGTGGATACTCATCTGGTTCGGTAAAGAAGTGAGGGTACCAGCTACTGCCTTGTGTGTCTTCGAT  
GCACATGATGGGGAAGTCAACGCTGTGCAGTTCAGTCCAGGTTCCCGGTTACTGGCCACTGGAGGCATGGACCGC  
AGGGTTAAGCTTTGGGAAGTATTTGGAGAAAAATGTGAGTTCAAGGGTTCCCTATCTGGCAGTAATGCAGGAATT  
ACAAGCATTGAATTTGATAGTGCTGGATCTTACCTCTTAGCAGCTTCAAATGATTTTGCAAGCCGAATCTGGACT  
GTGGATGATTATCGATTACGGGTAAGACCCAGTTAAGAAAGTTAGTGCAATCTCCAACTTCATGTGGTGTATC  
AAGGCACAACTGGCAGGTGCTTAATTAGGGGACTTTGTTTTCCCAAAAATCATGCTTGATTACCCTGCCCTTC  
CTTCTCCTTGGGAAATCTGTGTTTCCACTTTATACTCTTGTCCAAACTCAGTTTCAAATATTTGCATG  
GGACCTCACATTTGCATGAAAACCTTGGAATACTCTTCATAAGGACTAAATACTTTGGTAGATAGCAATTTGG  
CTTAATGGCACAGAACTTAGCAACAGCATGTGAATTGTGATTCTGTGGGCTCTAAAACCTAATTACCTAAAGTG  
GGATATAGAAGTACAAATGGATGTATCATAGGGATAAGACAATTCTGAAACAAAACTCCAAGCTGAGAAAGAGG  
GGACAGGTGTCAGAGCAGGGAGAAATGATTGGATGTTGAGGAAAGCTGCATTTGAACCAAACTTGCCAAGAATT  
CTCTTGGCATCTGACAGAGAGACCAAACTTGGTGTATCATTTTGTATTGGGGCAGGGGCGGAGGCGGAAGCA  
TGTAACCTAATTTGCAGACATTTTTTTTCCCATAGCCTGAAGGAATCATCACATAAGCTTATTAATAACAAGC  
TATTGAAAGATATAATGGAGGATGAATTTGGCATTAGTAGGCATTTTACT

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**FIGURE 1021**

MSSGLRAADFPRWKRHISEQLRRRDRLQRQAFEEIILQYNKLEKSDLHSVLAQKLQAEKHDVPNRHEISPGHDG  
TWNDNLQEMAQLRIKHQEELTELHKKRGELAQLVIDLNNQMQRKDREMOKELAEAAKEPLPVEQDDIEVIVDE  
TSDHTEETSPVRAISRAATKRLSQPAGGLDSVTNIFGRRSVSSFPVPQDNVDTHPGSGKEVRVPATALCVFDAH  
DGEVNAVQFSPGSRLLATGMDRRVKLWEVFGKECFKGSLSGSNAGITSIEFDSAGSYLLAASNDFASRIWTV  
DYRLRVRS

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**FIGURE 1022A**

AAGAGAGAAGGCTTCTGCCAGCTCCTGCAGCAGATGAAGAACAAGCACTCAGAGCAGCCGGAGCCCCGACATGATC  
ACCATCTTCATCGGCACCTGGAACATGGGTAACGCCCCCCTCCCAAGAAGATCACGTCTGGTTTCTCTCCAAG  
GGGCAGGGAAAGACGCGGGACGACTCTGCGGACTACATCCCCATGACATTTACGTGATCGGCACCCAAGAGGAC  
CCCCTGAGTGAGAAGGAGTGGCTGGAGATCCTCAAACACTCCCTGCAAGAAATCACCAGTGTGACTTTTAAACA  
GTGCGCCATCCACAGCTCTGGAACATCCGCATCGTGGTGCTGGCCAAGCCTGAGCACGAGAACCGGATCAGCCAC  
ATCTGTACTGACAACGTGAAGACAGGCATTGCAAACACACTGGGGAACAAGGGAGCCGTGGGGGTGTCGTTTCATG  
TTCAATGGAACCTCCTTAGGGTTCGTCAACAGCCACTTGACTTCAGGAAGTGAAAAGAACTCAGGCGAAACCAA  
AACTATATGAACATTCTCCGGTTCCTGGCCCTGGGCGACAAGAAGCTGAGTCCCTTTAACATCACTCACCCTTC  
ACGCACCTCTTCTGGTTTGGGGATCTTAACCTACCGTGTGGATCTGCCTACCTGGGAGGCAGAAACCATCATCCAG  
AAAATCAAGCAGCAGCAGTACGCAGACCTCCTGTCCCACGACCAGCTGCTCACAGAGAGGAGGGAGCAGAAGGTC  
TTCTTACACTTCGAGGAGGAAGAAATCACGTTTGCCCCAACCTACCGTTTGTAGAGACTGACTCGGGACAAATAC  
GCCTACACCAAGCAGAAAGCGACAGGGATGAAGTACAACCTTGCTTCTGGTGTGACCGAGTCCCTCTGGAAGTCT  
TATCCCCCTGGTGACGTGGTGTGTGTCAGTCTTATGGCAGTACCAGCGACATCATGACGAGTGACCACAGCCCTGTC  
TTTGCCACATTTGAGGCGAGGAGTCACTTCCCAGTTTGTCTCCAAGAACGGTCCCGGGACTGTTGACAGCCAAGGA  
CAGATTGAGTTTCTCAGGTGCTATGCCACATTGAAGACCAAGTCCCAGACCAAATTCTACCTGGAGTTCCTACTCG  
AGCTGCTTGGAGAGTTTGTCAAGAGTCAGGAAGGAGAAAATGAAGAAGGAAGTGAGGGGGAGCTGGTGGTGAAG  
TTTGGTGAGACTCTTCCAAAGCTGAAGCCATTATCTCTGACCCTGAGTACCTGCTAGACCAGCACATCCTCATC  
AGCATCAAGTCCCTCTGACAGCGACGAATCCTATGGCGAGGGCTGCATTGCCCTTCGGTTAGAGGCCACAGAAACG  
CAGCTGCCCATCTACACGCTCTCACCACCATGGGGAGTTGACAGGCCACTTCCAGGGGGAGATCAAGCTGCAG  
ACCTCTCAGGGCAAGACGAGGGAGAAGCTCTATGACTTTGTGAAGACGGAGCGTGATGAATCCAGTGGGCCAAAG  
ACCCTGAAGAGCCTCACCAGCCACGACCCCATGAAGCAGTGGGAAGTCACTAGCAGGGCCCCCTCCGTGCAGTGGC  
TCCAGCATCACTGAAATCATCAACCCCACTACATGGGAGTGGGGCCCTTTGGGCCACCAATGCCCTGCACGTG  
AAGCAGACCTTGTCCCTTGACCAGCAGCCACAGCCTGGAGCTACGACCAGCCGCCCAAGGACTCCCCGCTGGGG  
CCCTGCAGGGGAGAAAGTCTCCGACCTCCCGGCCAGCCGCCCATATACCCAAGAAGTTTTTACCCTCAACA  
GCAAAACGGGGTCTCCCTCCAGGACACAGGAGTCAAGGCCCACTGACCTGGGGAAGAACGCAGGGGACACGCTG  
CCTCAGGAGGACCTGCCGCTGACGAAGCCCGAGATGTTTGAGAACCCCTGTATGGGTCCCTGAGTTCCTTCCCT  
AAGCCTGCTCCAGGAAGGACCAGGAATCCCCAAAATGCCGCGGAAGGAACCCCGCCCTGCCCGGAACCCGGC  
ATCTTGTGCGCCAGCATCGTGCTCACCAAGCCAGGAGGCTGATCGCGGCGAGGGGCCCGCGGGGACAAGAGCCAAGG  
GCGCCCCGGCTGCGCTCCTTACGTGCTCATCTCTGCCGAGGGCAGGGCGGCCGCGGGGACAAGAGCCAAGGG  
AAGCCCAAGACCCCGGTGAGTCCAGGCCCGGTGCCGSCCAAGAGGCCCATCAAGCCTTCCAGATCGGAAATC  
AACCAGCAGACCCCGCCACCCGACGCCGCGGCCGCGCTGCCAGTCAAGAGCCCGCGGTGCTGCACCTCCAG  
CACTCCAAGGGCCGCGACTACCGCGACAACACCGAGCTCCCGCATCACGGCAAGCACCAGCCGAGGAGGGGCCA  
CCAGGGCCTCTAGGACGAGTGCATGAGTGAAGCCCTCAGTGAAGTGCCTGAGTGGGAGCCAGAGGAAC  
GGCGTGAAGCCACTGGACCTCTCCCGGGACCTCCTGCTGGTCTCCTGCCCAGCTTCCTATGCAAGGCTTTGT  
GTTTTCAGGAAAGGGCCTAGCTTCTGTGTGGCCACAGAGTTCAGTGCCTGTGAGACTTAGACCAAGTGCTGAG  
GCTGGAAGAAAACGCACACCAGACGGGCAACAAACAGTCTGGGTCCCAGCTCGCTCTTGGTACTTGGGACCCC  
AGTGCCCTCGTTGAGGGCGCCATTCTGAAGAAAGGAAGTGCAGCGCCGATTGAGGGTGGAGATATAGATAATAAT  
AATATTAATAATAATAATGGCCACATGGATCGAACACTCATGATGTGCCAAGTGCTGTGCTAAGTGCTTTACGAA  
CATTGCTCATATCAGGATGACCTCGAGAGCTGAGGCTCTAGCCACCTAAAACACAGTGCCTCAAACCCACAGTTT  
AAAACGGTGTGTGTTTCGAGGGGTGAAAGCATTGAAGCCAGTGCCTCCTGGAGTGAGACAAGGGCTCGGCC  
TTAAGGAGCTGAAGAGTCTGGTAGCTTGTTTAGGGTACAAGAAGCCTGTTCTGTCCAGCTTCAGTGACACAAGC  
TGCTTTAGCTAAAGTCCCGCGGTTCCGGCATGGCTAGGCTGAGAGCAGGGATCTACCTGGCTTCTCAGTTCTTT  
GGTTGGAAGGAGCAGGAAATCAGTCTTATTCTCAGTGGAGAGATCTGGCCTCAGCTTGGGCTAGAGATGCCAA  
GGCCTGTGCCAGGTTCCCTGTGCCCTCCTCGAGGTGGGCAGCCATCACCAGCCACAGTTAAGCCAAGCCCCCAA  
CATGTATTCCATCGTGCTGGTAGAAGAGTCTTTGCTGTGCTCCCGAAAGCCGTGCTCTCCAGCCTGGCTGCCAG  
GGAGGGTGGGCCTCTTGGTTCCAGGCTCTTGAAATAGTGCAGCCTTTTCTTCTATCTCTGTGGCTTTTACGCTCT  
GCTTCTTGGTTATTAGGAGAAATAGATGGGTGATGCTTTTCTTATGTTGCTTTTTCAACATAGCAGAATTAATG  
TAGGGAGCTAAATCCAGTGGTGTGTGTAATGCAGAAGGGAATGCACCCACATTCCCATGATGGAAGTCTGCGT

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**FIGURE 1022B**

AACCAATAAAATTGTGCCTTTCTCACTCA

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**FIGURE 1023**

MKNKHSEQPEPDMITIFIGTWNMGNAPPPKKITSWFLSKQGKTRDDSDADYIPHDIIYVIGTQEDPLSEKEWLEIL  
KHSLQEIITSVTFKTVAIHTLWNIRIVVLAKPEHENRISHICTDNVKTGIANTLGNGAVGVSMFNGTSLGFVNS  
HLTSGSEKKLRRNQNYMNILRFLALGDKKLSFPNITHRFTHLFWFGDLNYRVLDLPTWEAETIIQKIKQQQYADLL  
SHDQLLTERREQVFLHFEEEEITFAPTYRFERLTRDKYAYTKQKATGMKYNLPSWCDRVLWKSYPVLHVVCQSY  
GSTSDIMTSDHSEPVFATFEAGVTSQFVSKNGPGTVDSQGGQIEFLRCYATLTKTSQTKFYLEFHSSCLESFVKSQE  
GENEEGSEGELVVKFGETLPKLPKPIISDPEYLLDQHILISIKSSDSDESYGEGCIALRLEATETQLPIYTPLTHH  
GELTGHFQGEIKLQTSQGKTREKLYDFVKTERDESSGPKTLKSLTSHDPMKQWEVTSRAPPSCGSSITEIINPNY  
MGVGPFGPPMPLHVKQTLSPDQQPTAWSYDQPPKDSPLGPCRGESPPTPPGQPPISPKKFLPSTANRGLPPRTQE  
SRPSDLGKNAGDTLPQEDLPLTKPEMFENPLYGSLSSFPPKAPRKDQESPKMPRKEPPPCPEPGILSPSIVLTKA  
QEADRGE GPGKQVPAPRLRSFTCSSAEGRAAGDKSQGKPKTPVSSQAPVPAKRPIKPSRSEINQQTPPTPTPR  
PPLPVKSPAVLHLQHSGRDRDNTLPHHGKHRPEEGPPGLGRTAMQ

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**FIGURE 1024**

CGAGCGGACTCGACTCGGCACCGCTGTGCACCAATGCCCCGGGCCCTGTGCCGCCTCCCGCGGCGCGGCCTCTGGC  
TGCTCCTGGCCCATCACCTCTTCATGACCACTGCCTGCCAGGAGGCTAACTACGGTGCCCTCCTCCGGGAGCTCT  
GCCTCACCCAGTTCCAGGTAGACATGGAGGCCGTCGGGGAGACGCTGTGGTGTGACTGGGGCAGGACCATCAGGA  
GCTACAGGGAGCTGGCCGACTGCACCTGGCACATGGCGGAGAAGCTGGGCTGCTTCTGGCCCAATGCAGAGGTGG  
ACAGGTTCTTCCTGGCAGTGCATGGCCGCTACTTCAGGAGCTGCCCCATCTCAGGCAGGGCCGTGCGGGACCCGC  
CCGGCAGCATCCTCTACCCCTTCATCGTGGTCCCCATCACGGTGACCCTGCTGGTGACGGCACTGGTGGTCTGGC  
AGAGCAAGCGCACTGAGGGCATTGTGTAGGCGGGGCCAGGCTGCCCCGCGGTGCACCCAGGCTGCAGGGTGAGG  
CCAGGCAGGCCTGGGTAGGGGCAGCTTCTGGAGCCTTGGGACAGAGCAGGCCCAATGCCCCCTTCTTCCAGC  
CAAGAAGAGCTCACAGGAGTCCAGAGTAGCCGAGGCTCTGGTATTAACTGGAAGCCCCCTGGCTGGAGGCCAC  
CGCCACCCTAGGAAGGGGGCAGGGACGTGACCTTGACTTACCTCTGGAAGGGTCCCAGCCTAGACTGCTTACCC  
CATAGCCACATTTGTGGATGAGTGGTTTGTGATTAAAAGGGATGTTCTTG



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**FIGURE 1025**

MARALCRLPRRGLWLLLAHHLFMTTACQEANYGALLRELCLTQFQVDMEAVGETLWCDWGRTIRSRELADCTWH  
MAEKLGCWFENAEVDRFFLAVHGRYFRSCPISGRAVRDPPGSILYPFIVVPITVLLVTALVVWQSKRTEGIV

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**FIGURE 1026A**

GGCACGAGGCCGCTCCCCGGCGGGCTGGCTCCTGGCCCCGGAAGCGCGAGCGTTCACTTAGCGGCGAGTGGCTCC  
GTCTCCGCGGACAGAGCGCGCGCCCCCTGGCCCGGCCGCGAGGGGCTCCCGGCGCGGTCCCCGAGCATTTCCTCG  
CCGGGTGGAGCGGGCCGAGCCCGGCAGGATGACAGCCCCGCGGCCGCTCAAAGCCGGGAGATCGACTGTTTGAG  
CCCGGAAGCGCAGAAGCTGGCGGAAGCCCGCTCGCTGCAAAACGGGCGGCCCGCGGAGGCTCGCGAGATCCG  
CATGAAGGAGCTGGAGCGGCAGCAGAAGGAGGAAGACAGTGAAGCGCTACTCTCGTAGATCCAGAAGAAACACATC  
GGCTTCTGATGAAGACGAGCGCATGTCACTGGGTAGTCTGGAAGCCTGAGGGTAGAAGAGAGACCAGAAAAAGA  
TTTTACTGAGAAGGGTCTCGTAACATGCCGGGCCTGTCTGACCCACGCTGGCCTCTCTGGGTGGGACTTCCTC  
TCGGAGAGGCAGCGGAGACACCTCCTTCTCCATCGACACCGAGGCATCCATCAGGGAATCAAGGACTCTCTAGC  
AGAAGTTGAAGAGAAATATAAGAAGGCTATGGTTTCCAATGCTCAGCTAGACAATGAAAAGACAACTTCATGTA  
CCAGGTTGATACCTAAAAGATATGTTGCTGGAGCTTGAAGAACAGCTGGCTGAATCTAGGCGGCAGTACGAAGA  
GAAAAACAAAGAATTTGAAAGGGAAAAACAGCCACAGTATACTGCAATTTCACTTTGCTGAAGTCAAGGAGGC  
CCTGAAGCAAAGAGAGGAAATGCTCGAGAAACATGGAATAATCCTAAATTCAGAAATAGCTACCAATGGAGAGAC  
TTCCGACACCCTCAATAATGTTGGATACCAAGGTCTACCAAGATGACAAAAGAAGAGTTAAATGCCCTCAAGTC  
TACAGGGGATGGGACCTAGGAAGAGCCAGTGAAGTGGAGGTGAAAAATGAAATCGTGGCGAATGTGGGGAAAAAG  
AGAAATCTTGCACAATACTGAGAAAGAACAACACACAGAGGACACAGTGAAGGACTGTGTGGACATAGAGGTATT  
CCCTGCTGGTGAGAATACCGAGGACCAGAAATCCTCTGAAGACACTGCCCATTCCTAGGAACCTTAGCAGGTGC  
TACCTATGAAGAACAGGTTCAAAGCCAAATCTTGAGAGCAGTTCTCTCCCTGAAAACACAGTACAGGTTGAGTC  
AAATGAGGTTCATGGGTGACACAGATGACAGGACCAGAACTCCCTTGAGCCATCCAATGTTGGAGTGACTTAGA  
TGGTGGGAACACACAGAGAATGTGGGAGAGGCAGCAGTGACTCAGGTTGAAGAGCAGGCAGGCACAGTGGCCTC  
GTGTCTTTAGGGCATAGTGATGACACAGTTTATCATGATGACAAATGTATGGTAGAGGTCCCCAAGAGTTAGA  
GACAAGCACAGGGCATAGTTTAGAGAAAGAATTCACCAACCAGGAAGCAGCTGAGCCCAAGGAGGTTCCAGCGCA  
CAGTACAGAAGTAGGTAGGGATCACAACGAAGAAGAGGGTGAAGAAAACAGGATTAAAGGACGAGAAACCAATCAA  
GACAGAAGTTCTGGTTCTCCAGCAGGAACAGGGGCAACTGTCAGGAAGCGACAGGTCCAAGTACAGTAGACAC  
TCAAAATGAACCTTTAGATATGAAGAGCCCGATGAAGAAAAGAGTGACCAACAGGGAGAGGCATTGGACTCATC  
GCAGAAGAAGACAAAGAACAAGAAAAAGAAAAACAAGAAGAAAAATCCCCAGTACCCGTAGAAACCTTAAAGA  
TGTTAAAAAAGAGTTAAGCTATCAGAACACAGATTTAAGTGAAATTAAGGAAGAAGAGCAGGTAAAGTCTACTGA  
CAGAAAGTCAGCAGTGGAAGCCCCAAACGAGGTGACTGAAATCCAAACAGAAATTCAGCAGAGAAAGCAGTGA  
AAATGTTGATTGTCCGGAGAACTCTAAATTAAGTTGGATGGAAAACCTTGACCAAGAAGGTGATGATGTACAAAC  
AGCAGCTGAGGAGGTACTAGCTGATGGAGACACATTAGATTTTGAGGATGACACCGTTCAATCATCAGGCCCCGAG  
GGCTGGTGGTGAAGAATTAGATGAAGGTGTTGCAAAAGATAATGCTAAATAGATGGTGCCACTCAAAGCAGTCC  
TGCAGAACCAAAGAGCGAAGACGCAGATCGCTGCACCCTGCCCGAACATGAAAGTCCCTCACAGGACATTAGTGA  
TGCTGTGAAGCAGAAAGTACAGAGAGGTGTGAGATGTGAGACATCCAAGTCAGACCGTCAGGAAAGCTTTAGA  
CAGCAATAGCCTAGAGAACGATGACTTGTCCGCCACCAGGAAGAGAGCCAGGGCACTTCAATCCAGAAAGCAGAGA  
AGATACCAGAGGAGGGAATGAGAAGGGCAAAAGCAAAGAAGACTGTACCATGTCTTAAGCTGAGGCAGGCGGCAG  
GCGCGGTGCACAGGAAGTCTCAGTGTGAAGGGGTCTTTTCTCTCCACTGCCAATGTAAGTAGAATGTTCTAAATT  
CATAGAGAGGCACTGTATGACAATTACCAGGTGCTCTACTGCTTTAAGTTATAGACTGTTACTTGTAGATTTCCA  
TGTAATCATTGAGGTTATCACCCAGATTAGAAAGACATATTTGTTATCAGTGTACGTTCTAATTGAGAGCATTCC  
AGTAGTATCAACAATAATGTCTACTGTTTATAGTCCACTTAATAAAAAATAGAGGCATTTACTATTTGCCTTAGG  
CTGATAGGAATGTGGGTTTTCTTGACCAATATATCAGCATCTAATTGAAATGACCAATAGCATTCTTAGACTT  
CTGTATTATGAATATAATTGATATTTAAATTAATGTCTTGTTACATATGTGTACTTTCAATTTGATTTTAAAA  
TGTACATTATAACCTGTATGGTATTTTATTTAAAGGAGATAAACAGCCAAATAGCAATAGGTCACTGAATGATA  
AGATTTGCACCTTAGAACAATAATCATTTTTAAGGATAACAAGTAAATGTCTGAAAGCATGAGGGGCTTTATTTGC  
CTTTACCTCATATGAGTCTTTGATCTTGAACCGATACTTTTGGATCTCATTGTTGATATACCTGAATTTACTTTG  
TAAGAGATTTTAACTTCACTTCATGCTGATGATGATCAAATTCATTTTATAGAAAGATTTAAAGTTTTTTCTG  
GAAGTGATATATGTCAAATTACATTTCTACTGCAGTATTTGAGCAGGGACAGTCATTTTTTAAATGTTTTTGGC  
CGGGCGTGGTGGCTCATGCCTGTAATCTCAGTACATTGGGAGGCCAAGGCAGGTGGATCACCTGAGGTCAAGAGT  
TCGAGGCCAGCCTGGCCACATGGTGAAACCTGTCTCTACTAAAAATACAAAAAATTGGCCGGCGTGATGGTG  
GGCGCTGTAAATCCAGCCACTCCAGAGGCTGAGGCAGGAGAATCGCTTGAACCTGCGAGGCAGAGATTGCAGTG

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**FIGURE 1026B**

AGCCAAGATCAAGCCATTGTACTCCAGCCTGGACAACAAGAGCGAAACTCTGTCTA

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**FIGURE 1027**

MTSPAAQSRIDCLSPQAQKLAEARLAAKRAARAEAREIRMKELERQQKEEDSERYSRRSRNTSASDEDERMS  
VGSRGSLRVEERPEKDFTEKGSRNMPGLSAATLASLGGTSSRRGSGDTSFSIDTEASIREIKDSLAEVEEKYKKA  
MVSNAQLDNEKTNFMYQVDTLKDMLLEEEQLAESRRQYEEKNEFEREKHAHSILQFQFAEVKEALKQREEMLE  
KHGIILNSEIATNGETSDTLNNGYQGPTKMTKEELNALKSTGDGTLGRASEVEVKNEIVANVGKREILHNTEKE  
QHTEDTVKDCVDIEVFPAGENTEDQKSSEDTPFLGTLGATYEEQVQSQILESSSLPENTVQVESNEVMGAPDD  
RTRTPLEPSNCWSDLDGGNHTENVGEAAVTQVEEQAGTVASCPLGHSDDTVYHDDKCMVEVPQELETSTGHSLEK  
EFTNQEAAPKEVPAHSTEVGRDHNEEEGEETGLRDEKPIKTEVPGSPAGTEGNCQEATGPSTVDTQNEPLDMKE  
PDEEKSDQQGEALDSSQKKTNNKKKKKKKSPVPVETLKDVKKELTYQNTDLSEIKEEEQVKSTDRKSAVEAQN  
EVTENPKQKIAAESSENVDCPENPKIKLDGKLDQEGDDVQTAAEEVLADGDTLDFEDDTVQSSGPRAGGEELDEG  
VAKDNAKIDGATQSSPAEPKSEDADRCTLPEHESPSQDISDACEAESTERCEMSEHPSQTVRKALDSNSLENDDL  
SAPGREPGHFNPESEDTRGGNEKGKSKEDCTMS

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**FIGURE 1028A**

CAGTTTGGAGCTCAGTCTTCCACCAAAGGCCGTTCAAGTCTCTCTGGGCTCCAGCCTCCTGCAAGGACTGCAAGAG  
TTTTCTCCGAGCTCIGAGTCTCCACTTTTTTGGTGGAGAAAGGCTGCAAAAAGAAAAGAGACGCAGTGAGTG  
GGAAAAGTATGCATCCTATTCAAACCTAATTGAATCGAGGAGCCCAGGGACACACGCCTTCAGGTTTGCTCAGGG  
GTTTCATATTTGGTGTCTAGACAAATTCAAATGAGGAAACATCGGCACTTGCCCTTAGTGCCGCTCTTTGCCTC  
TTTCTCTCAGGCTTTCTACAACCTCATGCCCAGCAGCAGCAAGCAGATGTCAAAAATGGTGCAGGCTGCTGATATA  
ATATTTCTAGTGGATTCTCTTGACCATTGGAGAGGAACATTTCCAACCTGTTCGAGAGTTTCTATATGATGTT  
GTAAAATCCTTAGCTGTGGGAGAAAATGATTTCATTTTGCTCTGGTCCAGTTCAACGGAAACCCACATACCGAG  
TTCTGTAAATACGTATCGTACTAAACAAGAAGTCTTTCTCATATTTCCAACATGTCTTATATTGGGGGAACC  
AATCAGACTGGAAGGATTAGAATACATAATGCAAGCCACCTCACCAGGCTGCTGGAAGCCGGGCCGGTGAC  
GGAGTCCCTCAGGTTATCGTAGTGTAACTGATGGACACTCGAAGGATGGCCTTGCTCTGCCCTCAGCGGAACCTT  
AAGTCTGCTGATGTAAACGTGTTTGAATTGGAGTTGAGGATGCAGATGAAGGAGCGTTAAAAGAAATAGCAAGT  
GAACCGCTCAATATGCATATGTTCAACCTAGAGAAATTTACCTCACTTCATGACATAGTAGGAAACCTTAGTGTC  
TGTGTGATTATCCGTGAGTCCAGAAAGGGCTGGGGACACGGAACCCCTTAAAGACATCACAGCACAAAGACTCT  
GCTGACATTATTTCTTATTGATGGATCAAACAACCCGGAAGTGTCAATTTGCGAGTCATTCTCGACTTCCTT  
GTAAATCTCCTTGAGAACTCCCAATTGGAACCTCAGCAGATCCGAGTGGGGGTGGTCCAGTTTAGCGATGAGCCC  
AGAACCATGTTCTCCTTGACACCTACTCCACCAAGGCCAGGTTCTGGGTGCAGTGAAAGCCCTCGGGTTTGCT  
GGTGGGGAGTTGGCCAATATCGGCCCTCGCCCTTGATTTCGTGGTGGAGAACCCTTCACCCGGGCAGGGGGCAGC  
CGCGTGGAGGAAGGGGTTCCCCAGGTGCTGGTCTCATAAGTGCCGGGCTTCTAGTGACGAGATTGCTACGGG  
GTGGTAGCACTGAAGCAGGCTAGCGTGTCTCATTGGCCTTGAGGCCAGGCCGCTCCAGGGCAGAGCTTCAG  
CACATAGCTACCGATGACAACCTGGTGTCTACTGTCCCGAATTCCGTAGCTTTGGGGACCTCCAGGAGAAATTA  
CTGCCGTACATTGTTGGCGTGGCCCCAAGGCACATTGTCTTGAAACCGCCAACCATTGTACACAAGTCATTGAA  
GTCAACAAGAGAGACATAGTCTTCTGGTGGATGGCTCATCTGCACTGGGACTGGCCAACCTCAATGCCATCCGA  
GACTTCATTGCTAAAGTCATCCAGAGGCTGGAATCGGACAGGATCTTATCCAGGTGGCAGTGCCCCAGTATGCA  
GACACTGTGAGGCCGTGAATTTTATTCAATACCCATCCAACAAAAGGGAAGTCATAACCGCTGTGCGGAAAATG  
AAGCCCCCTGGACGGCTCGGCCCTGTACACGGGCTCTGCTCTAGACTTTGTTGTAACAACCTATTCACGAGTCA  
GCCGGCTACCGGGCTGCGGAGGGGATTCTTAAGCTTTTGGTGTGATCACAGGTGGTAAGTCCCTAGATGAAATC  
AGCCAGCCTGCCAGGAGCTGAAGAGAAGCAGCATAATGGCCTTTGCCATTGGGAACAAGGTTGCCGATCAGGCT  
GAGCTGGAAGAGATCGCTTTCGACTCTCCCTGGTGTTCATCCAGCTGAGTCCGAGCCGCCCTTAGTCAAGGC  
ATGCTGCCTGGCTTGCTGGCACCTCTCAGGACCTCTCTGGAACCCCTGAAGTTCACCTCAAACAAAAGGGATATC  
ATCTTTCTTTTGATGGATCAGCCAACGTTGGA AAAACCAATTTCCCTTATGTGCGGACTTTGTAATGAACCTA  
GTTAACAGCCTTGATATTGGAATGACAATATTCGTGTTGGTTTAGTGCAATTTAGTGACACTCTGTAAACGGAG  
TTCTCTTTAAACACATACCAGACCAAGTCAGATATCCTTGGTCATCTGAGGCAGCTGCAGCTCCAGGGAGGTTG  
GGCCTGAACACAGGCTCAGCCCTAAGCTATGTCTATGCCAACCACTTCACGGAAGCTGGCGGCAGCAGGATCCGT  
GAACACGTGCCGAGCTCCTGCTTCTGCTCAGAGCTGGGCAGTCTGAGGACTCCTATTGCAAGCTGCCAACGCC  
TTGACACGCGCGGCATCCTGACTTTTTGTGTGGGAGCTAGCCAGGCAATAAGGCAGAGCTTGAGCAGATTGCT  
TTTAACCCAAGCCTGGTGTATCTCATGGATGATTTACGCTCCCTGCCAGCTTTGCCTCAGCAGCTGATTACGCC  
CTAACCATATGTTAGTGAGGTGTGGAGGAAGTACCCTCGCTCAGCCAGAGAGCAAGCGAGACATTCTGTTT  
CTCTTTGACGGCTCAGCCAATCTTGTGGCCAGTTCCCTGTTGTCGGTACTTTCTCTACAAGATTATCGATGAG  
CTCAATGTGAAGCCAGAGGGGACCCGAATTGCGGTGGCTCAGTACAGCGATGATGTCAAGGTGGAGTCCCGTTTT  
GATGAGCACCAGAGTAAGCCTGAGATCCTGAATCTTGTGAAGAGAATGAAGATCAAGACGGGCAAAGCCCTCAAC  
CTGGGCTACGCGCTGGACTATGCACAGAGGTACATTTTTGTGAAGTCTGCTGGCAGCCGGATCGAGGATGGAGTG  
CTTCAGTTCCTGGTGTCTGCTGCGCAGGAAGTTCATCTGACCGTGTGGATGGGCCAGCAAGTAACCTGAAGCAG  
AGTGGGGTGTGCTTTCTATCTTCCAAGCCAAGAACGCAGACCTGCTGAGTTAGAGCAGATCGTGTCTCTCA  
GCGTTTATCCTGGCTGCAGAGTCGCTTCCCAAGATTGGAGATCTTCATCCACAGATAGTGAATCTCTAAAATCA  
GTGCACAACGGAGCACCAGCAGCTTTTCAGGTGAAAAGGACGTGGTGTCTGCTTGATGGCTCTGAGGGCGTC  
AGGAGCGGTTTCCCTCTGTTGAAAGAGTTTGTCCAGAGAGTGGTGGAAAGCCTGGATGTGGGCCAGGACCGGGTC  
CGCGTGGCCGTGGTGCAGTACAGCGACCGGACCGGCCGAGTTCTACCTGAATTCATACATGAACAAGCAGGAC  
GTGCTCAACGCTGTCCGCCAGCTGACCCTGCTGGGAGGGCCGACCCCAACACCGGGGCCCGCTGGAGTTTGTC

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**FIGURE 1028B**

CTGAGGAACATCCTGGTCAGCTCTGCGGGAAGCAGGATAACAGAAGGTGTGCCCCAGCTGCTGATCGTCCTCACG  
GCCGACAGGTCTGGGGATGATGTGCGGAACCCCTCCGTGGTCTGTAAGAGGGGTGGGGCTGTGCCCATTGGCATT  
GGCATCGGGAACGCTGACATCACAGAGATGCAGACCATCTCCTTCAATCCCGGACTTTGCCGTGGCCATTCCCACC  
TTTCGCCAGCTGGGGACCGTCCAACAGGTCATCTCTGAGAGGGTGACCCAGCTCACCCGCGAGGAGCTGAGCAGG  
CTGCAGCCGGTGTGTCAGCCTCTACCGAGCCCAGGTGTTGGTGGCAAGAGGGACGTGGTCTTTCTCATCGATGGG  
TCCCAAAGTGCCGGGCTGAGTTCAGTACGTTTCGCACCCCTCATAGAGAGGCTGGTTGACTACCTGGACGTGGGC  
TTTGACACCACCCGGGTGGCTGTCTCCAGTTCAGCGATGACCCCAAGGTGGAGTTCCTGCTGAACGCCCATTC  
AGCAAGGATGAAGTCGAGAACGCGGTGCAGCGGTGAGGCCAAGGGAGGGCGGCAGATCAACGTGGGCAATGCC  
CTGGAGTACGTGTCCAGGAACATCTTCAAGAGGCCCTGGGGAGCCGATTGAAGAGGGCGTCCCGCAGTTCTCTG  
GTCCTCATCTCGTCTGGAAGTCTGACGATGAGGTGGACGACCCGCGGTGGAGCTCAAGCAGTTTGGCGTGGCC  
CCTTTCAGATCGCCAGGAACGCAGACCAGGAGGAGCTGGTGAAGATCTCGCTGAGCCCCGAATATGTGTCTCG  
GTGAGCACCTTCGGGAGCTGCCAGCCTGGAGCAGAACTGCTGACGCCCATCACGACCTGACCTCAGAGCAG  
ATCCAGAAGCTCTTAGCCAGCACTCGCTATCCACCTCCAGCAGTTGAGAGTGATGCTGCAGACATCGTCTTTCTG  
ATCGACAGCTCTGAGGGAGTTAGGCCAGATGGCTTTGCACATATTGAGATTTTGTAGCAGGATTGTTTCAAGA  
CTCAACATCGGCCCCAGTAAAGTGAGAGTTGGGGTCTGTCAGTTTCAAGCAATGATGTCTTCCAGAATTCTATCTG  
AAAACCTACAGATCCAGGCCCGGTGCTGGACGCCATACGGCGCCTGAGGCTCAGAGGGGGTTCCCACTGAAC  
ACTGGCAAGGCTCTCGAATTTGTGGCAAGAAACCTCTTGTTAAGTCTGCGGGGAGTCGCATAGAAGACGGGGTG  
CCCCAACACCTGGTCTTGGTCTGGGTGGAAAATCCAGGACGATGTGTCCAGGTTCCGCCAGGTGATCCGTTC  
TCGGGCATTGTGAGTTTAGGGGTAGGAGACCGGAACATCGACAGAACAGAGCTGCAGACCATCACCAATGACCCC  
AGACTGGTCTTACAGTGCGAGAGTTCAGAGAGCTTCCCAACATAGAAGAAAGAATCATGAACCTGTTTGGACCC  
TCCCGAGCCACTCTGCACCTCCAGGGGTGGACACCCCTCCTCCTTACCGGCCAGAGAAGAAGAAAGCAGACATT  
GTGTTCTGTGTTGGATGGTTCCATCAACTTCAGGAGGGACAGTTTCCAGGAAGTGCTTCGTTTTGTGTCTGAAATA  
GTGGACACAGTTTATGAAGATGGCGACTCCATCCAAGTGGGGCTTGTCCAGTACAACCTGACCCCACTGACGAA  
TTCTTCTGAAGGACTTCTCTACCAAGAGGCAGATTATTGACGCCATCAACAAAGTGGTCTACAAAGGGGGAAGA  
CACGCCAACACTAAGGTGGGCCTTGAGCACCTGCGGGTAAACCACTTTGTGCTGAGGCAGGCAGCCGCTGGAC  
CAGCGGGTCCCTCAGATTGCCTTTGTGATCACGGGAGGAAAGTCCGGTGGAGATGCACAGGATGTGAGCCTGGCC  
CTCACCCAGAGGGGGGTCAAAGTGTTTGTGCTGTTGGAGTGAGGAATATCGACTCGGAGGAGGTTGGAAGATAGCG  
TCCAACAGCGCCACAGCGTTCCGCGTGGGCAACGTCCAGGAGCTGTCCGAACAGGCGAGCAAGTTTGGAACT  
TTGCATGATGCGATGCATGAAACCTTTGCCCTGGTGTAACATGATGCTGCCAAAGCTTGTAATCTGGATGTGATT  
CTGGGGTTTGTGTTCTAGAGACCAGATGTTTTTGTGGCCAGAAAGGGCTTCGAGTCCAAGGTGGACGCCATC  
TTGAACAGAATCAGCCAGATGCACAGGGTCAGCTGCAGCGGTGGCCGCTCGCCACCGTGCGTGTGTCAGTGGTG  
GCCAACACGCCCTCGGGCCCGGTGGAGGCCCTTGACTTTGACGAGTACCAGCCAGAGATGCTCGAGAAGTTCGG  
AACATGCGCAGCCAGCACCCCTACGTCTCACGGAGGACACCTGAAGGTCTACCTGAACAAGTTCAGACAGTCC  
TCGCCGGACAGCGTGAAGGTGGTCATTCTTTACTGATGGAGCAGACGGAGATCTGGCTGATTACACAGAGCA  
TCTGAGAACCTCCGCCAAGAAGGAGTCCGTGCCTTGATCCTGGTGGGCCTTGAACGAGTGGTCAACTTGGAGCGG  
CTAATGCATCTGGAGTTTGGGCGAGGGTTTATGTATGACAGGCCCTGAGGCTTAACCTGCTGGACTTGGATTAT  
GAACTAGCGGAGCAGCTTGACAACATTGCCGAGAAAGCTTGCTGTGGGGTTCCCTGCAAGTGCTCTGGGCAGAGG  
GGAGACCGCGGGCCATCGGCAGCATCGGGCCAAAGGTAATCCTGGAGAAGACGGCTACCGAGGCTATCCTGGT  
GATGAGGGTGGACCCGGTGAGCGTGGTCCGCTGGTGTGAACGGCACTCAAGTTTCCAGGGCTGCCCGGGCCAG  
AGAGGAGTAAAGGGCTCTCGGGGATTCCAGGAGAGAAGGGCGAAGTAGGAGAAATTGGACTGGATGGTCTGGAT  
GGTGAAGATGGAGACAAAGGATTACCTGGTCTTCTGGAGAGAAAGGGAATCCTGGAAGAAGGGGTGATAAAGGA  
CCTCGAGGAGAGAAAGGAGAAAGAGGAGATGTGGGATTTCAGGGGACCCGGTAACCCAGGACAAGACAGCCAG  
GAGAGAGGACCCAAAGGAGAAACCGGTGACCTCGGCCCATGGGTGTCCAGGGAGAGATGGAGTACCTGGAGGA  
CCTGGAGAACTGGGAAGAAATGGTGGCTTTGGCCGAAGGGGACCCCCGAGCTAAGGGCAACAAGGGCGGTCTCT  
GGCCAGCCGGGCTTTGAGGGAGAGCAGGGGACAGAGGTGCACAGGGCCAGCTGGTCTCTGGTCTTCCAGGG  
CTGATAGGAGAAAGGCATTCTTGACCTCGGGGAAGCGAGGTGCCGCTGGTCTCTGGAGAACGAGGCAGA  
ACCGGTCCACTGGGAAGAAAGGGTGAGCCCGAGAGCCAGGACCAAAAGGAGGAATCGGGAACCGGGGCCCTCGT  
GGGAGACGGGAGATGACGGGAGAGACGGAGTTGGCAGTGAAGGACGCAGAGGCAAAAAGGAGAAAGAGGATT

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**FIGURE 1028C**

CCTGGATACCCAGGACCAAAGGGTAACCCAGGTGAACCTGGGCTAAATGGAACAACAGGACCCAAAGGCATCAGA  
GGCCGAAGGGGAAATTCGGGACCTCCAGGGATAGTTGGACAGAAGGGAGACCCTGGCTACCCAGGACCAGCTXXX  
XXXXXXGGCAACAGGGGCGACTCCATCGATCAATGTGCCCTCATCCAAGCATCAAAGATAAATGCCCTTGCTGT  
TACGGGCCCCCTGGAGTGGCCCCGTCTTCCCAACAGAACTAGCCTTTTGCTTTAGACACCTCTGAGGGAGTCAACCAA  
GACACTTTTCGGCCGGATGCGGAGATGTGGTCTTGAGTATTGTGAATGACCTGACCATTGCTGAGAGCAACTGCCCA  
CGGGGGGCCCCGGGTGGCTGTGGTCACCTACAACAACGAGGTGACCACGGAGATCCGGTTTGCTGACTCCAAGAGG  
AAGTCGGTCTCTGGACAAGATTAAAGAACCTTCAGGTGGCTCTGACATCCAAACAGCAGAGTCTGGAGACTGCC  
ATGTCGTTTGTGGCCAGGAACACATTTAAGCGTGTGAGGAATGGATTCCCTAATGAGGAAAGTGGCTGTTTTCTTC  
AGCAACACACCCACAAGAGCATCCCCACAGCTCAGAGAGGCTGTGCTCAAGCTCTCAGATGCGGGGATCACCCCC  
TTGTTCTCTTACAAGGCAGGAAGACCGGCAGCTCATCAACGCTTTGCAGATCAATAACACAGCAGTGGGGCATGCG  
CTTGCTCTGCTGCGAGGAGAGACCTCACAGACTTCTGGAGAATGTCTTCACGTGTCTGTTTGCTTGGACATC  
TGCAACATCGACCCATCCTGTGGATTGGCAGTTGGAGGCTTCTTCAGGGACAGGAGAGCGGCAGGGAGCGAT  
GTGGACATCGACATGGCTTTCATCTTAGACAGCGCTGAGACCACCACCCTGTTCCAGTTCAATGAGATGAAGAAG  
TACATAGCGTACCTGGTCAGACAACCTGGACATGAGCCCAGATCCCAAGGCTCCAGCACTTCGCCAGAGTGGCA  
GTTGTGCAGCAGCGGCCCTCTGAGTCCGTGGACAATGCCAGCATGCCACCTGTGAAGGTGGAATTCTCCCTGACT  
GACTATGGCTCCAAGGAGAAGCTGGTGGACTTCTCAGCAGGGGAATGACACAGTTGCAGGGAACCCAGGGCCTTA  
GGCAGTGCCATTGAATACACCATAGAGAATGTCTTTGAAAGTGCCCCAAACCCACGGGACCTGAAAATTGTGGTC  
CTGATGCTGACGGGCGAGGTGCCGGAGCAGCAGCTGGAGGAGGCCAGAGAGTCATCTGCAGGCCAAATGCAAG  
GGCTACTTCTTCTGTTGGTCTGGGCATTGGCAGGAAGGTGAACATCAAGGAGGTATACACCTTCGCCAGTGAGCCA  
AACGACGTCTTCTTCAATTAGTGGACAAGTCCACCGAGCTCAACGAGGAGCCTTTGATGCGCTTCGGGAGGCTG  
TTGCCATCCTTCGTGAGCAGTGAAAATGCTTTTACTTGTCCCCAGATATCAGGAAACAGTGTGATTGGTTCCAA  
GGGGACCAACCCACAAGAACCTTGTGAAGTTTGGTCACAAACAAGTAAATGTTCCGAATAACGTTACTTCAAGT  
CCTACATCCAACCCAGTGACGACAACGAAGCCGGTGACTACGACGAAGCCGGTGACCACCACAACAAAGCCTGTA  
ACCACCACAACAAAGCCTGTGACTATTATAAATCAGCCATCTGTGAAGCCAGCCGCTGCAAAGCCGGCCCCCTGCG  
AAACCTGTGGCTGCCAAGCCTGTGGCCACAAGACGGCCACTGTAGACCCCAAGTGGCGGTGAAGCCAGCAACG  
GCAGCGAAGCCTGTAGCAGCAAAGCCAGCAGCTGTAAGACCCCCGCTGCTGCTGCAAAACAGTGGCGGACCAAG  
CCTGAGGTCCCTAGGCCACAGGCAGCAAACCCAGCTGCCACCAAGCCAGCCACCACTAAGCCCATGGTTAAGATG  
TCCCGTGAAGTCCAGGTGTTTGTAGATAACAGAGAACAGCGCCAACTCCACTGGGAGAGGCCTGAGCCCCCGGT  
CCTTATTTTTATGACCTCACCGTCACCTCAGCCATGATCAGTCCCTGGTTCTGAAGCAGAACCTCACGGTCAG  
GACCGCGTCATTGGAGGCTGCTCGCTGGGCAGACATACCATGTGGCTGTGGTCTGCTACCTGAGGTCTCAGGTC  
AGAGCCACCTACCATGGAAGTTTCAGTACAAAGAAATCTCAGCCCCACCTCCACAGCCAGCAAGGTCAGCTTCT  
AGTTCAACCATCAATCTAATGGTGAGCACAGAACCATTGGCTCTCACTGAAACAGATATATGCAAGTTGCCGAAA  
GACGAAGGAACCTGCAGGGATTTCATATTTAAATGGTACTATGATCCAAACACCAAAAGCTGTGCAAGATTCTGG  
TATGGAGGTTGTGGTGAAACGAAAACAAATTTGGATCACAGAAAGAATGTGAAAAGGTTTTCGCTCCTGTGCTC  
GCCAAACCCGAGTCATCAGTGTGATGGGAACCTAAGCGTGGGTGGCCAAACATCATATACCTCTTGAAGAAGAAG  
GAGTCAGCCATCGCCAACTTGTCTCTGTAGAAGCTCCGGGTGTAGATTCCCTTGCACTGTATCATTTTCATGCTTT  
GATTTTACACTCGAACTCGGGAGGGAACATCCTGCTGACCTATCAGTATGGTGCTAATGTGCTGTGGACCC  
TCGCTCTCTGTCTCCAGGCAGTTCTCTCGAATACTTTGAATGTTGTGAACAGTTAGCCACTGCTGGTGTATTATG  
TGAACATTCCTATCAATCCAAATTCCTCTGGAGTTTTCATGTTATGCCTGTTGCAGGCAAATGTAAAGTCTAGAA  
AATAATGCAAAATGTACGGCTACTCTATATACITTTGCTTGGTTCATTTTTTTTCCCTTTTAGTTAAGCATGACT  
TTAGATGGGAAGCCTGTGTATCGTGAGAAACAAGAGACCAACTTTTTCATTCCCTGCCCCCAATTTCCAGACT  
AGATTTCAAGCTAATTTTTCTTTTCTGAAGCCTCTAACAAATGATCTAGTTTCAAGGAAGCAAAATCCCTTAAT  
CTATGTGACCGTTGGGACCAATGCCTTAATTAAGAATTTAAAAAGTTGTAATAGAGAATATTTTTGGCATTC  
CTCTAATGTTGTGTGTTTTTTTTTTTGTGTGCTGGAGGGAGGGGATTTAATTTTAAATTTTAAATGTTTAGGAA  
ATTTATACAAAGAACTTTTTAATAAGTATATTGAAAGTTT

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**FIGURE 1029**

AGCCCAGCGAGGCCTGTGCTGTGAGGGGCTGTGCTGTGCCAGGGGAGGCCCCGCACCCGGGAAGCCCAGAGGAGA  
GTGTGCACTCACGGAGCCCTCCTGGCAGGGCCGCGTCTCTGGAGCAGCAGACCCGTGTCCCTCTGGGAGGTCAAC  
TGCGGCCTCACAGCTGGGCCTGTCCCAGCACAGCCCTTGTTGGAGGGCGCACCCCGTGTCCCTCAGCACCCAGT  
GTTGAGTGCCCTTGACCTGCAGAGGGGAGCCTGTGCTGGTCCCGGGCGTCTGTGTGGCTCCTGGGTGCCATCTGC  
ACCCCTGGCCCTGCTCTGGGCTTCAGTGGAGCCGTGCCACCGTGGGAGTGTCCAGGGTCCCTGACGTAGCCCTGAG  
ACGTGGCCAGCTCCCTGGCCTGCTGCCCGCACAGTGGGCCCTTGTTCTCTGCTCTGGGTGAGGCGAGGCAGCCACC  
CATGATGAGCTCTGCAGCCTTCCCAAGGTGGCTGAGCATGGGGGTCCCTCGTACCCCTTCACGGACAGTGCTCTT  
CGAGCGGGAGAGGACGGGCCTGACCTACCGCGTGCCTCGTTGCTCCCCGTGCCCCCGGGGCCACCCCTGCTGGC  
CTTTGTGGAGCAGCGGCTCAGCCCTGACGACTCCACGCCCACCGCCTGGTGCTGAGGAGGGGCACGCTGGCCGG  
GGGCTCCGTGCGGTGGGGTGCCCTGCACGTGCTGGGGACAGCAGCCCTGGCGGAGCACCAGTCCATGAACCCCTG  
CCCTGTGCACGATGCTGGCACGGGCACCGTCTTCCTCTTCTTCATCGCGGTGCTGGGCCACACGCTGAGGCCGT  
GCAGATCGCCACGGGAAGGAACGCCGCGCGCCTCTGCTGTGTGGCCAGCCGTGACGCCGGCCTCTCGTGGGGCAG  
CGCCCGGGACCTCACCGAGGAGGCCATCGGTGGTGCCGTGCAGGACTGGGCCACATTGCTGTGGGTCCCGGCCA  
CGGCGTGACGCTGCCCTCAGGCCGCTGCTGGTACCCGCTACACCTACCGCGTGGACCGCCGAGAGTGTTTGG  
CAAGATCTGCCGGACCAGCCCTCACTCCTTCGCCTTCTACAGCGATGACCACGGCCGCACCTGGCGCTGTGGAGG  
CCTCGTGCCCAACCTGCGCTCAGGCGAGTGCCAGCTGGCGGCGGTGGACGGTGGGCAGGCCGGCAGCTTCCTCTA  
CTGCAATGCCCCGAGCCCACTGGGCAGCCGTGTGCAGGCGCTCAGCACTGACGAGGGCACCTCCTTCCTGCCCGC  
AGAGCGGTGGCTTCCCTGCCCGAGACTGCCTGGGGCTGCCAGGGCAGCATCGTGGGCTTCCAGCCCCGCCCC



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**FIGURE 1030**

GAATTGGCAGCCAACATGGCGGCGGAACGCGGCGCGGGGCAGCAACAGTCGCAGGAGATGATGGAGGTTGACAGG  
CGGGTCGAGTCTGAAGAATCCGGCGATGAAGAAGGGAAGAAACACAGCAGTGGCATCGTGGCCGACCTCAGTGAA  
CAGAGCCTGAAGGATGGGGAGGAGCGGGGGGAGGAGGACCCAGAAGAAGAACATGAGCTGCCTGTGGACATGGAA  
ACCATCAACCTGGACAGAGATGCAGAGGATGTTGATTTGAATCACTATCGCATAGGGAAGATTGAAGGATTGAG  
GTACTGAAGAAAGTGAAGACTCTCTGCCTCCGCCAAAATTTAATTAAATGCATTGAGAATCTGGAGGAGCTACAG  
AGTCTTCGAGAGCTGGATCTTTACGACAACCAGATCAAGAAGATTGAGAATCTGGAGGCGCTAACAGAGCTGGAG  
ATTCTAGATATTTCTTTTAACTGCTGAGAAACATCGAAGGGGTTGACAAGTTGACACGACTGAAAAAACTCTTC  
TTGGTCAACAATAAAATCAGTAAAAATTGAGAACTTAAGCAACTTACATCAACTACAGATGCTAGAGCTGGGATCT  
AACCGCATCCGGGCAATCGAAAATATCGACACCTTAACCAACCTGGAGAGTTTGTGTTTTGGGGAAAAACAAAATT  
ACTAAACTTCAGAACCTGGATGCGCTCACCAACCTGACAGTCCTCAGTATGCAGAGCAACCGGCTGACCAAGATC  
GAGGGTCTGCAGAACCTGGTGAACCTGCGGGAGCTGTACCTTAGCCACAATGGCATCGAGGTCATCGAGGGCCTG  
GAGAACAATAACAACTCACGATGTTGGACATTGCATCAAATAGAATCAAAAAGATTGAAAAATATCAGCCATCTA  
ACAGAGCTGCAAGAGTTCTGGATGAACGACAATCTCCTTGAGAGCTGGAGCGACCTCGACGAGCTGAAGGGAGCC  
AGGAGCCTGGAGACAGTGTACCTGGAGCGGAACCCCTTGAGAAAGGACCCCCAGTACCGGCGGAAGGTCATGCTC  
GCCCTCCCTCCGTGCGGCAGATCGATGCCACGTTTCGTCAAGTTCTTCAGTCCTTCTTGGCTCCTCATGTGGTCCC  
TCTCCTCGGAAGAACTGCCCAGCCACGGGTTTTTAACCCACCTGTTGCTCCTGAGGTCGTCACTATATCAACAGT  
CACAAACCCAATGGCAATAAAGGCACTGACGATAGCTGGCGCGCGGACGCCACACACCATTTTCAGATGCCGTT  
GCAATTAATCTTGCCACACTGTC

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**FIGURE 1031**

MAAERGAGQQSQEMMEVDRRVESEESGDEEGKKHSSGIVADLSEQSLKDGEERGEEDPEEEHELPVDMETINLD  
RDAEDVDLNHYRIGKIEGFEVLKKVKTLCRLRQNLKCIENLEELQSLRELDLYDNQIKKIELEALTELEILDIS  
FNLLRNIEGVDKLTRKKLFLVNNKISKIENLSNLHQLQMLELGSNRIRAIENIDTLNLESFLGKNKITKLQN  
LDALTNLTVLSMQSNRLTKIEGLQNLVNLRELYLSHNGIEVIEGLENNKLTMLDIASNRIKKIENISHLTELQE  
FWMNDNLLESWSDLDELKGARSLETVYLERNPLQKDPQYRRKVMLALPSVRQIDATFVRF

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FIGURE 1032A

CAAAAGCTGGCAGGCTGACAGAGGCGGCCTCAGGACGGACCTTCTGGCTACTGACCGTTTTGCTGTGGTTTTCCC  
GGATTGTGTGTAGGTGTGAGATCAACCATGAGTTCCGTTGCAGTTTTGACCCAAGAGAGTTTTGCTGAACACCGA  
AGTGGGCTGGTTCGCAACAAATCAAAGTTGCCACTCTAAATTCAGAAGAGGAGAGCGACCCCTCCAACCTACAAG  
GATGCCTTCCCTCCACTTCTCTGAGAAAAGCTGCTTGCTGGAAAGTGCCAGGAACCCCTCTGGAGCCTGGGGGAAC  
AAGATCCGACCCATCAAGGCTTCTGTCACTCACTCAGGTGTTCCATGTACCCCTGGAGGAGAGAAAATACAAGGAT  
ATGAACCAGTTTGGAGAAGGTGAACAAGCAAAAATCTGCCTTGAGATCATGCAGAGAACTGGTGCTCACTTGGAG  
CTGTCTTTGGCCAAAGACCAAGGCTCTCCATCATGGTGTTCAGGAAAGCTGGATGCTGTCAAGAGCTCGGAAG  
GACATTGTTGTAGACTGCAGACTCAGGCCTCAGCAACTGTTGCCATTCCCAAAGAACACCATCGCTTTGTTATT  
GGCAAAAATGGAGAGAACTGCAAGACTTGGAGCTAAAACTGCAACCAAAAATCCAGATCCCACGCCAGATGAC  
CCCAGCAATCAGATCAAGATCACTGGCACCAAGAGGGCATCGAGAAAGCTCGCCATGAAGTCTTACTCATCTCT  
GCCGAGCAGGACAAACGTGCTGTGGAGAGGCTAGAAGTAGAAAAGGCATTCCACCCCTTCATCGCTGGGCCGTAT  
AATAGACTGGTTGGCGAGATCATGCAGGAGACAGGCACGCGCATCAACATCCCCCACCAGCGTGAACCGGACA  
GAGATTGTCTTCACTGGAGAGAAGGAACAGTTGGCTCAGGCTGTGGCTCGCATCAAGAAGATTTATGAGGAGAAG  
AAAAAGAAGACTACAACCATTTGCAGTGGAAAGTGAAGAAATCCCAACACAAGTATGTCATTGGGCCCAAGGGCAAT  
TCATTGCAGGAGATCCTTGAGAGAACTGGAGTTTCCGTTGAGATCCCACCTCAGACAGCATCTCTGAGACTGTA  
ATACTTCGAGGCGAACCTGAAAAGTTAGGTTCAGGCGTTGACTGAAGTCTATGCCAAGGCCAATAGCTTCACCGTC  
TCCCTGTGCGCCGCCCTTCCCTGGCTTCACCGTTTCATCATTGGCAAGAAAGGGCAGAACCTGGCCAAAATCACT  
CAGCAGATGCCAAAGGTTACATCGAGTTCACAGAGGGCGAAGACAAGATCACCCCTGGAGGGCCCTACAGAGGAT  
GTCAATGTGGCCAGGAACAGATAGAAGGCATGGTCAAAGATTTGATTAAACCGGATGGACTATGTGGAGATCAAC  
ATCGACCACAAGTTCCACAGGCACCTCATTGGGAAGAGCGGTGCCAACATAAACAAGATCAAAGACCAGTACAAG  
GTGTCCGTGCGCATCCCTCCTGACAGTGAGAAGAGCAATTTGATCCGCATCGAGGGGGACCCACAGGGCGTGCAG  
CAGGCCAAGCGAGAGCTGCTGGAGCTTGCACTCTCGCATGGAAATGAGCGTACCAAGGATCTAATCATTGAGCAA  
AGATTTATCGCACAATCATTGGGCAGAAGGGTGAACGGATCCGTGAAATTCGTGACAAATCCCAGAGGTCATC  
ATTAACCTTCCAGACCCAGCACAAAAAGTGACATTGTCCAGCTCAGAGGACCTAAGAATGAGGTGGAAAAATGC  
ACAAAATACATGCAGAAGATGGTGGCAGATCTGGTGGAAAATAGCTATTCAATTTCTGTTCCGATCTTCAAACAG  
TTTCAAGAATATCATTGGGAAGGAGGGCGAAACATTAAAAAGATTCGTGAAGAAAGCAACACCAAAATCGAC  
CTTCCAGCAGAGAATAGCAATTCAGAGACCATATCATCACAGGCAAGCGAGCCAACTGCGAAGCTGCCGGGAGC  
AGGATTCTGTCTATTAGAAAAGACCTGGCCAACATAGCCGAGGTAGAGGTCTCCATCCCTGCCAAGCTGCACAAC  
TCCCTCATTGGCACCAAGGGCGTCTGATCCGCTCCATCATGGAGGAGTGGCGGGGTCCACATTCACTTTCCC  
GTGGAAGGTTCAAGGAAGCGACACCGTTGTTATCAGGGGCCCTTCTCGGATGTGGAGAAGGCCAAGAAGCAGCTC  
CTGCATCTGGCGGAGGAGAAGCAACCAAGAGTTTCACTGTTGACATCCGCGCCAAGCCAGAATACCACAAATTC  
CTCATCGGCAAGGGGGGGCGGCAAAATTCGCAAGGTGCGCGACAGCACTGGAGCACGTGTCACTTCCCTGCGGCT  
GAGGACAAGGACCAGGACCTGATCACCATCATTGGAAGGAGGACGCCGTCCGAGAGGCACAGAAGGAGCTGGAG  
GCCTTGATCCAAAACCTGGATAATGTGGTGAAGACTCCATGCTGGTGGACCCCAAGCACCACCGCCACTTCGTC  
ATCCGCAGAGGCCAGGTCTTGCGGGAGATTGCTGAAGAGTATGGCGGGGTGATGGTCAGCTTCCCACGCTCTGGC  
ACACAGAGCGACAAAGTCACCCCTCAAGGGCGCAAGGACTGTGTGGAGGCAGCCAAGAAACGCATTCAAGGATC  
ATTGAGGACCTGGAAGCTCAGGTGACATTAGAATGTGCTATACCCAGAAAATCCATCGATCTGTCTGGGCCCC  
AAAGGTTCCAGAATCCAGCAGATTACTCGGGATTTCACTGTTCAAATTAATTTCCAGACAGAGAGGAGAACGCA  
GTTACAGTACAGAGCCAGTTGTCCAGGAGAATGGGGACGAAGCTGGGGAGGGGAGAGGCTAAAGATTGTGAC  
CCCGGCTCTCCAAGGAGGTGTGACATCATCATCTCTGGCCGGAAGAAAAGTGTGAGGCTGCCAAGGAAGCT  
CTGGAGGCATTGGTTCTGTCAACATTGAAGTAGAGGTGCCCTTTGACCTTACCGTTACGTTATTGGGCAGAAA  
GGAAGTGGGATCCGAAGATGATGGATGAGTTTGAGGTGAACATACATGTCCCGGCACCTGAGCTGCAGTCTGAC  
ATCATCGCCATCAGGGCCTCGCTGCAAAATTTGACCGGGCCAAAGGCTGGACTGCTGGAGCGTGTGAAGGAGCTA  
CAGGCCGAGCAGGAGGACCGGGCTTTAAGGAGTTTTAAGCTGAGTGTCACTGTAGACCCCAATACCATCCCAAG  
ATTATCGGGAGAAAAGGGGGCAGTAATTACCAAAATCCGTTGGAGCATGACGTGAACATCCAGTTTCTGTATAAG  
GACGATGGGAACCAAGCCCAAGGACCAATACCAAGGATCAGAAAAGAACACAGAAGCTGCCAGGGATGCT  
ATACTGAGAATTGTGGGTGAACCTGAGCAGATGGTTTCTGAGGACGTCCCGCTGGACCACCGGTTACGCCCCG  
ATCATTGGTGGCCGCGCAAGCCATTGCAAAAATCATGGACGAATTCAAGGTGGACATTGCTTCCCACAGAGC

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**FIGURE 1032B**

GGAGCCCCAGACCCCAACTGCGTCACTGTGACGGGGCTCCCAGAGAATGTGGAGGAAGCCATCGACCACATCCTC  
AATCTGGAGGAGGAATACCTAGCTGACGTGGTGGACAGTGAGGCGCTGCAGGTATACATGAAACCCCAAGCACAC  
GAAGAGGCCAAGGCACCTTCCAGAGGCTTTGTGGTGCGGGACGCACCCTGGACCGCCAGCAGCAGTGAGAAGGCT  
CCTGACATGAGCAGCTCTGAGGAATTTCCCAGCTTTGGGGCTCAGGTGGCTCCCAAGACCCTCCCTTGGGGCCCC  
AAACGATTAATGATCAAAAAGAACAGAACCCCTCTCCAGCCTGCTGACCCAAACCAACCACACAATGGTTTGTCTC  
AATCTGACCCAGCGGCTGGACCCTCCGTAAATTGTTGACGCTCTTCCCCCTTCCCGAGGTCCCGCAGGGAGCCTA  
GCGCCTGGCTGTGTGTGCGGCCGCTCCTCCAGGCCTGGCCGTGCCCGCTCAGGACCTGCTCCACTGTTTAACACT  
AAACCAAGGTCATGAGCATTTCGTGCTAAGATAACAGACTCCAGCTCCTGGTCCACCCGGCATGTCAGTCAGCACT  
CTGGCCTTCATCACGAGAGCTCCGCAGCCGTGGCTAGGATTCCACTTCCTGTGTCATGACCTCAGGAAATAAACG  
TCCTTGACTTTATAAAAGCC